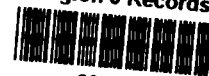




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EPA Region 5 Records Ctr.



230258

7 September 2001

Mr. Scott Hansen, SR-6J  
Work Assignment Manager  
U.S. Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

U.S. EPA Contract No.: 68-W7-0026  
Work Assignment No.: 114-RXBF-0573  
Document Control No.: RFW114-2B-AJDC

Re: Oversight Report for the Oversight Provided from 15 June through 9 August 2001  
Skinner Landfill, West Chester, Ohio

Dear Mr. Hansen:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the periodic report for the oversight provided from 15 June through 9 August 2001.

Should you have any questions or require additional information, please feel free to contact me at (847) 918-4051.

Very truly yours,

ROY F. WESTON, INC.

Omprakash S. Patel.  
Site Manager

OSP/kvh



**REMEDIAL ACTION OVERSIGHT  
PERIODIC REPORT  
SKINNER LANDFILL  
WEST CHESTER, OHIO  
(15 JUNE THROUGH 9 AUGUST 2001)**

September 2001

Prepared for

U.S. Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604

This document was prepared in accordance with U.S. EPA Contract No. 68-W7-0026, WESTON Region V Response Action Contract (RAC) and contains confidential business information.

Document Control No. RFW114-2B-AJDC

**REMEDIAL ACTION OVERSIGHT  
PERIODIC REPORT  
15 JUNE 2001 THROUGH 9 AUGUST 2001  
SKINNER LANDFILL  
WEST CHESTER, OHIO**

This report summarized the oversight of construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio for the period 15 June 2001 through 13 August 2001. Earth-Tech and its subcontractors are completing construction implementation and remedial action at the site. The primary subcontractors to date include Pro-Terra, Geo-Solutions, Inc., David E. Estes Engineering, Burgess and Niple Engineering and Architecture, Alt and Witzig Engineering, Bowser-Morner Drilling, and MidAmerica Liner Company. One WESTON oversight staff member provided the oversight. Photo documentation and copies of field log notes are attached.

Field activities at the site are being performed with the purpose of implementing the U.S. EPA-approved Constructing Implementation and Remedial Action Plans.

**18 June 2001 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Gordon Horn, U.S. EPA contractor oversight (WESTON)

**GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

On 18 June 2001, Earth Tech and its subcontractors completed construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbooks and on the markers adjacent to the trench. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, and soils) slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests

included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability. Earth Tech and its subcontractors moved excess slurry away from the trench to dehydrate and subsequently cap the trench.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued regrading landfill debris from the main fill area, and covering it with soil from the southern borrow area. Two trucks and two bulldozers to move the soil and landfill debris. Earth Tech continued building access roads to different areas of the site. The water truck was used to spray the access roads for dust control. The water for dust control is obtained from the duck pond.

Earth Tech and its subcontractors are scheduled to work Saturdays in order to make up for delays as a result of bad weather. A progress meeting is scheduled for Wednesday, 20 June 2001 at 10:30 a.m. at the site trailer with U.S. EPA, contractors, and PRPs.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer in the morning prior to initiation of work at the site. Slip, trip and fall and working around heavy equipment were identified as most common health and safety concerns at the site. Also, working near the interceptor trench was hazardous. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried by soil in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Finally, Earth Tech was periodically discharging pooled run-off water into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction.

There were no observed deviations from the U.S. EPA approved planning documents.



**20 June 2001 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Gordon Horn, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

On 20 June 2001, Earth Tech and its subcontractors staked the center-line of the completed soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. The batch slurry mix plant was cleaned in preparation for the next phase of remediation – installation of the interceptor trench. Additional work included preparation of the extraction well casing and screen to be installed in the interceptor trench, and removal of standing water as a result of a recent storm.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued landfill grading, and covering with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. The water truck was used to spray down the access roads for dust control.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

A progress meeting was held at the site trailer with U.S. EPA, contractors, and PRPs. Following items were discussed during the meeting:

- Slurry wall construction has been completed.
- Interceptor trench construction will commence today, weather permitting. Rain is forecast for today and tomorrow.

Work accomplished since last meeting includes:

- Slurry wall completed.
- Drainage work, re-grading etc. continued
- Well GW21 abandoned .
- Mr. Ray Skinner's equipment was moved, agreement made just today on moving Ray Skinner's pile of contaminated soil near entrance.
- Report will be submitted to Mr. Ben Baker on results and recommendations from drum and tank sampling. A decision needs to be made on disposition of tank containing glue.
- Pro Terra plans on working Saturdays.
- All slurry slump tests passed.
- Some locations of the slurry wall could not be keyed into bedrock at the specified depth. But most of the slurry wall is keyed into the bedrock.
- There is an issue with Butler County about anchoring of the manhole where the interceptor trench will be tied into the sewers. WESTON was not aware of this issue.
- There is a West Chester Trustee meeting on 21 August 2001. Mr. Ben Baker will attend the meeting
- Scott Hansen mentioned that WESTON is reviewing the revised grading plan.
- Ron Roelker needs to submit change order request for decon pad, fence realignment, and change in riprap where fence is unsupported.

- Documentation of hydraulic spills will go in monthly. Ron has letter from equipment supplier on changes being made to hydraulic lines.
- Surveyor may come in today for final shots on slurry trench.
- Utility (electric) will come out on Thursday at 11:00 AM.
- Bowser Morner will start piezometer installation next week.
- Pro Terra will get information into monthly report on where slurry wall was breached.
- Liner crew will start week of 9 July 2001. The fabric will be stored in the North Borrow Area.
- One injury was reported since last meeting. Earth Tech employee strained his back while pulling the silt fence. The A-W personnel who had gone to the hospital had only indigestion.
- It will take 15 - 20 trucks to bring in the liner.
- There were no safety issues and the readings on the field monitoring equipment were below 5.
- There are 16 - 17 workers (Earth Tech + Pro Terra) on site now.
- MidAmerica (liner) will probably have 15 workers. By that time Pro Terra will be done.
- Next monthly meeting scheduled for 18 July at 11:00 AM.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**22 June 2001 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees  
 Randy Anschultz (Pro Terra)  
 Pro-Terra, additional employees

Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Monica Stefanoff, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

On 22 June 2001, Earth Tech and its subcontractors began construction of the interceptor trench system north of the cut-off wall along the south perimeter of the landfill. Trench depths and graded surface elevations were measured using an electronic level and stadia rod, and are recorded in field logbooks. Field tests were completed on the bio-polymer slurry mix in accordance with the American Society for Testing Materials (ASTM) standards listed in the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH, backfill slurry slump test and permeability. Additional work included preparation of the extraction well casing and screen to be installed in the interceptor trench, and removal of standing water from flooded access roads as a result of a recent storm.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued regrading landfill and covering it with soil from the southern borrow area. Earth Tech also continued building access roads to different areas of the site. The water truck was used to spray down the access roads for dust control.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning.

## **OTHER ISSUES**

None.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**25 June 2001 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

### **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of the interceptor trench resumed using the PC400 long-reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report.

Depths to the bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line. And work near the interceptor trench was hazardous due to the trench itself and the polymer slurry mix in and around the immediate vicinity. However, a life preserver attached to a rope is available in case of slip, trip and fall hazards.

### **LANDFILL CAP CONSTRUCTION**

Earth Tech continued grading and soil compaction in the north and northeast sections of the landfill and the northern borrow area. Whereas compaction testing was completed by Alt and Witzig Engineers. Additionally, David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they are re-graded.

## **DECONTAMINATION PAD CONSTRUCTION**

Construction of the decontamination pad was completed.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Whereas, slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Likewise, work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried by soil in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Finally, Earth Tech periodically discharged pooled run-off water into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction.

The location of the decontamination pad is not in accordance with the U.S. EPA approved planning documents.

### **26 June 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)

Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of the interceptor trench resumed using the PC400 long reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report.

Earth Tech surveyed the trench excavation depth and land surface as the interceptor trench was dug. The bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line. Soil stockpiles from the excavation will eventually be moved to the center of the landfill near the drum staging area. Work near the interceptor trench was hazardous due to the trench itself and the polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

A total of one 8-inch diameter extraction well, four 8-inch diameter and four 4-inch diameter observation wells will be installed in Interceptor Trench Number 1 (eastern) as the trench is constructed.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech began construction of the landfill's west access road following Work Plan specifications as outlined in Section 02100 of the Remedial Design Phase I Report and Section 4.3.2 of the Construction Implementation Plan. Whereas grading and soil compaction continued in the north and northeast sections of the landfill and the northern borrow area. Compaction testing of the compacted soil was completed by Alt and Witzig Engineers, while David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the geosynthetic layer of the landfill cap. Earth Tech may work Saturday and Sunday to ensure the site is prepared for the liner.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Earth Tech excavated the soil at contaminated soil area GW-38, removing a total of 16 truckloads at 18 to 20 cubic yards per load. The excavated soil was dumped at the center of the landfill near the drum staging area. A total of eight soil samples and several QA/QC samples were collected from the excavation side-walls and floor. The excavation was subsequently backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Whereas work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. And additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviation with respect to the U.S. EPA approved planning documents.



**27 June 2001 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Bowser-Morner, drilling contractors  
Michael Brady, U.S. EPA contractor oversight (WESTON)

#### **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 1 (eastern) was completed. Work yet to be completed on Interceptor Trench 1 includes the installation of an access vault, tie-in to the force main, and bio-polymer slurry. A total of one 8-inch diameter extraction well, four 8-inch diameter and four 4-inch diameter observation wells were installed in Interceptor Trench Number 1 (eastern) as the trench was constructed. One hundred feet separated the 8-inch diameter wells. Interceptor Trench Number 2 construction was scheduled to start Thursday 28 June 2001.

#### **GROUNDWATER MONITORING**

Earth Tech installed piezometers P-9 and P-10 as outlined in Section 3.0 of the Remedial Action Field Sampling Plan. With the exception of the sand pack the piezometers were constructed in accordance with Work Plan specifications. That is number 7 quartz sand was not used during the construction of P-9 or P-10.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued construction of the landfill's west access road following Work Plan specifications as outlined in Section 02100 of the Remedial Design Phase I Report and Section 4.3.2 of the Construction Implementation Plan. Likewise, grading and soil compaction continued in the north and northeast sections of the landfill and the northern borrow area. Soil compaction testing was completed by Alt and Witzig Engineers, whereas, David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation will be mobilizing to the site 9 July 2001 to install the geosynthetic layer of the landfill cap. Earth Tech may work Saturday and Sunday to ensure the site is prepared for the liner.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Earth Tech completed the excavation of soil at contaminated soil area GW-38, removing a total of 16 truckloads at 18 to 20 cubic yards per load. The excavated soil was dumped at the center of the landfill near the drum staging area. A total of eight soil samples and several QA/QC samples were collected from the excavation side-walls and floor. The excavation at area GW-38 was subsequently backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan. Likewise, Earth Tech began excavation of soil from contaminated soil area BP-01 and BP-02 at the Skinner storage yard just west of the landfill.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Also, work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## OTHER ISSUES

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approve planning documents.

### 28 June 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Bowser-Morner, drilling contractors  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Construction of Interceptor Trench Number 2 (middle) was started using the PC400 long-reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific

gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report.

Earth Tech surveyed the trench excavation depth and land surface as the interceptor trench was dug. The bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line. Soil from the excavation was placed on the south slope of the landfill, and it appeared that the excavated material contained leachate. Soil stockpiles from the excavation will eventually be moved to the center of the landfill near the drum staging area. Om Patel suggested to Earth Tech that the excavated material from Interceptor Trench number 2 should be placed on plastic sheeting to limit the possibility of contamination to the surface soils and/or the East Fork of Mill Creek.

Construction of the interceptor trench was behind schedule according to the Remedial Action Plan Construction Schedule. Trench construction was delayed due to bad weather and material delivery delays. Interceptor trench construction began 22 June 2001. Efforts were being made to recover from work delays in accordance with Section 01310 of the Remedial Design Phase I Report. Weekend work was tentatively scheduled.

## **GROUNDWATER MONITORING**

Earth Tech continued to install piezometers (P-8 through P-12) at the pre-determined locations and as outlined in Section 3.0 of the Remedial Action Field Sampling Plan.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued construction of the landfill's west access road following work plan specifications as outlined in Section 02100 of the Remedial Design Phase I Report and Section 4.3.2 of the Construction Implementation Plan. Grading and soil compaction continued in the north and northeast sections of the landfill and the northern borrow area. Soil compaction testing was completed by Alt and Witzig Engineers, and David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded. MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the

geosynthetic layer of the landfill cap. Earth Tech may work Saturdays and Sundays to ensure the site is prepared for the liner.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Earth Tech completed the excavation of soil at contaminated soil area BP-01 and BP-02, removing approximately 35 to 40 truckloads at 18 to 20 cubic yards per load. The excavated soil was dumped at the center of the landfill near the drum staging area. A total of eleven soil samples and several QA/QC samples were collected from the excavation side-walls and floor. The excavation at area BP-01 and BP-02 remained open and surrounded by security fence until laboratory results were received and reviewed. The excavation will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**29 June 01 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Bowser-Morner, drilling contractors  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 2 (middle) was postponed due to construction problems. Soil fractures developed parallel to the slurry wall near Interceptor Trench Number 2 construction. It appeared that part of the slurry wall had fallen into the interceptor trench as a result of excavation, soil saturation, or general lack of trench wall stability. The cracks developed between stakes 5+70 and 6+40. Earth Tech, Pro Terra and Geo Solutions constructed an earthen berm near the soil fractures to prevent the bio-polymer from draining off site. The contractors speculated that the slurry wall is effectively retaining leachate, so much so, that the soil adjacent to the wall is saturated, possibly impacting the bio-polymer filter cake and stability of the trench. Ron Roelker (Project Engineer) said that Pro Terra would provide a Corrective Action Plan or Modified Work Plan by Monday afternoon 2 July 2001. The contractors subsequently moved equipment and supplies further west to begin work on Interceptor Trench Number 3. Construction of Interceptor Trench Number 3 began and was postponed shortly thereafter because of the amount of leachate coming through the trench side-wall. The trench was subsequently backfilled.

## **GROUNDWATER MONITORING**

Earth Tech continued to install piezometers at the pre-determined locations and as outlined in Section 3.0 of the Remedial Action Field Sampling Plan. Piezometers P-8, P-9, P-10, P-11 and P-12 were installed this week.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech completed construction of the landfill's west access road following work plan specifications as outlined in Section 02100 of the Remedial Design Phase I Report and Section 4.3.2 of the Construction Implementation Plan. Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. Also, gas vents were installed as the northern borrow areas was re-graded and compacted to completion. Additionally, Earth Tech removed the chain-link fence and trees just south of the duck pond in order to relocate the fill material and re-grade the area.

Compaction testing was completed by Alt and Witzig Engineers, and David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the geosynthetic layer of the landfill cap. Earth Tech may work Saturdays and Sundays to ensure the site is prepared for the liner.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Also, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

### **2 July 2001 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Bowser-Morner, drilling contractors  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Work on Interceptor Trench Number 2 was postponed due to questions about the integrity of the adjacent slurry wall and until a Corrective Action Plan or Modified Work Plan was written by the contractors and approved by the U.S. EPA.



Excavated soil was dumped on the side slope of the landfill. This is contrary to the approach specified in the Construction Implementation Plan where, "Excavated soils containing Bio-Polymer will be loaded into off road haul trucks and dumped in the landfill area to be incorporated into the sub-grade soil."

Construction of Interceptor Trench Number 3 resumed using the PC400 long reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile filter fabric layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report. Depths to the bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line.

## **GROUNDWATER MONITORING**

Earth Tech and Bowser-Morner started to develop the five newly installed piezometers (P-8 through P-12) on the landfill using a small bailer and drop line. Each piezometer was surged only (not bailed or pumped) over a short period. Water quality instruments were not used during this stage of piezometer development.

Earth Tech discussed the possibility of abandoning one groundwater monitoring well south of the East Fork of Mill Creek. Earth Tech proposed grouting the well in place rather than over-drilling and pulling the well casing and well screen because of the difficulty of driving the drill rig across the bridge or creek.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the north and northeast sections of the landfill and the northern borrow area. Also, Earth Tech continued displacing fill material and soil near the duck pond and at the southeast corner of the landfill. Additionally, compaction testing was completed by

Alt and Witzig Engineers, and David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they are re-graded.

A partial shipment of Flexible Membrane Liner (FML) or Linear Low Density Polyethylene (LLDPE) geomembrane arrived and was stored in the northern borrow area. MidAmerica Liner was scheduled to begin installing the liner next week (9 July 01).

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Heat stroke, heat exhaustion and heat rash are health and safety concerns during the summer months. Most of the contractors were outside with little or no cover 10 to 12 hours each day Monday through Friday and often Saturday. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Also, work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Conversely, Earth Tech was periodically discharging pooled run-off water into the East Fork of Mill Creek from various areas along the slurry wall.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **3 July 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 3 resumed using the PC400 long-reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile filter fabric layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report.

Excavated soil from the trenches was dumped on the side slope of the landfill, which is contrary to the approach specified in the Construction Implementation Plan where, "Excavated soils containing Bio-Polymer will be loaded into off road haul trucks and dumped in the landfill area to be incorporated into the subgrade soil." Earth Tech surveyed the trench excavation depth and land surface as the interceptor trench was dug. The bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line.

## **GROUNDWATER MONITORING**

Earth Tech pumped or bailed groundwater from the five piezometers on top of the landfill as part of development efforts. Groundwater quality parameters (turbidity, pH, temperature, specific conductance, etc.) were not measured in the field and used to evaluate the groundwater chemistry as the piezometers were bailed or pumped as outlined in Section 3.4 of the Remedial Action Field Sampling Plan.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the north and northeast sections of the landfill and the northern borrow area. Compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the landfill cap. Earth Tech may work Saturdays to ensure the site is prepared for the liner.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours Monday through Friday and often Saturday. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech periodically discharged pooled run-off water into the East Fork of Mill Creek from various areas along the slurry wall. Diesel fuel, oil, or another liquid was still slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**5 July 2001 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 3 resumed using the PC400 long-reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified in Section 02397 of the Remedial Design Phase I Report.

Earth Tech surveyed the trench excavation depth and land surface as the interceptor trench was dug. The bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line. Excess bentonite/soil backfill slurry and soil from the excavation were hauled to the center of the landfill near the drum staging area.

Earth Tech, Pro Terra and Geo Solutions held a meeting at the site to discuss a proposed Corrective Action Plan or Modified Work Plan. Several modification options and related issues were discussed including: sheet piling (vibratory and hammer) for trench stability; construction of a fourth interceptor trench; over excavation of Interceptor Trench Number 2; dewatering the upgradient portion of the interceptor trenches to reduce the likelihood of heaving or saturated sands;

constructing a higher elevation and wider work platform; placement of excavated material on the side slopes of the landfill; removal and stockpiling of excavated material; discharging polymer and groundwater into Mill Creek; discharging leachate and surface water into Mill Creek, etc. Earth Tech scheduled a final Modified Work Plan for delivery to U.S. EPA sometime next week (9 July 01).

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued re-grading cut and fill areas at the southwest lobe of the landfill and in the north and northeast sections of the landfill and the northern borrow area. Compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the FML cap. Earth Tech may work Saturday to ensure the site is prepared for the liner.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours Monday through Friday and often Saturday. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **7/6/01 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 3 resumed using the PC400 long-reach excavator. A smaller PC200 excavator was used to add gravel to the trench as the trench was excavated to depth and the 20-foot wide geotextile layer was put into place with 4-foot overlaps as specified in Section 02397 of the Remedial Design Phase I Report. A bio-polymer slurry was continuously pumped into the open excavation to stabilize the trench walls. Viscosity, specific gravity and pH tests (four per shift), and filtrate loss tests (once per shift) were performed on the bio-polymer slurry as specified

in Section 02397 of the Remedial Design Phase I Report. Moreover, the work platform near Interceptor Trench Number 2 was widened to accommodate the Modified Work Plan at this location according to a request by Pro Terra and Geo Solutions.

The impounded surface water/leachate just west of Interceptor Trench Number 2 was gone, presumably covered over or displaced as a result of the work platform widening.

The soil (mostly sand lenses) at the western-most leg of Interceptor Trench Number 3 was saturated with leachate from the landfill making it difficult to maintain trench stability. At least one area of Interceptor Trench Number 3 (near 11+80) has been over-excavated to obtain trench stability. Earth Tech has suggested using trench boxes or pilings in order to maintain the trench stability to complete the interceptor trench. Earth Tech surveyed the trench excavation depth and land surface as the interceptor trench was dug. The bottom of the trench and surface elevations were recorded in log books and on survey stakes placed every ten linear feet along the trench line. Also, excess bentonite/soil backfill slurry and soil from the excavation were hauled to the center of the landfill near the drum staging area.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued re-grading cut and fill areas at the southwest lobe of the landfill and in the north and northeast sections of the landfill and the northern borrow area.

Compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to continue surveying the top of the landfill and side slopes as they were re-graded.

MidAmerica Liner Corporation was scheduled to mobilize to the site 9 July 2001 to install the FML cap. Earth Tech may work Saturdays to ensure the site is prepared for the liner.



## HEATH AND SAFETY

A tailgate meeting was held at the site trailer first thing in the morning. Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours Monday through Friday and often Saturday. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## OTHER ISSUES

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Moreover, Earth Tech was periodically discharging pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

### 9 July 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)

MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 3 was continued, and the excavation nearly completed. Pro Terra and Geo Solutions had some difficulty maintaining the excavation wall stability due to saturated and shifting sand in the trench. As a result of heavy rain last night, the interceptor trenches were filled with sediment and runoff water from the landfill and surrounding areas. Much of the runoff water was flowing into the East Fork of Mill Creek. Additionally, it appeared that some of the pooled water was mixed with leachate. And approval to continue working on interceptor Trench Number 2 had not been received by U.S. EPA.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Efforts were being made to recover from work delays in accordance with Section 01310 of the Remedial Design Phase I Report. However, no weekend work was tentatively scheduled.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area.

Compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area. MidAmerica Liner Corporation staged the Bentomat and LLDPE in the northern borrow area. The geonet layer had not been delivered yet.

## **SURFACE WATER MONITORING and SAMPLING**

Earth Tech completed surface water runoff sampling at two different locations along the East Fork of Mill Creek. Surface water run-off sampling is scheduled once each month following a rain event.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Additionally, work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Moreover, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **10 July 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Construction of Interceptor Trench Number 3 was continued and the excavation work completed. Pro Terra and Geo Solutions had some difficulty maintaining the excavation wall stability due to saturated and shifting sand in the trench. Moreover, as a result of heavy rain over the weekend, the interceptor trenches were filled with sediment and runoff water from the landfill and surrounding areas. Much of the runoff water was flowing into the East Fork of Mill Creek. It appeared that some of the pooled water was mixed with leachate. Also, approval to continue working on Interceptor Trench Number 2 had not been received by U.S. EPA.

Pro Terra used the PC400 long-reach track hoe to remove at least one of the 4-inch diameter wells at Interceptor Trench Number 1. The 4-inch diameter wells were originally installed at the discretion of Pro Terra. Additionally, Geo Solutions added powdered bleach to Interceptor Trench Number 3 to break the biopolymer bonds, and re-circulated the solution in and out of two of the 8-inch diameter wells along Interceptor Trench Number 3. Geo Solutions tested the viscosity of the water in Interceptor Trench Number 3 during re-circulation.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Efforts were being made to recover from work delays in accordance with Section 01310 of the Remedial Design Phase I Report. However, no weekend work was tentatively scheduled.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area, and pooled runoff water was drained from various areas of the site. Rocks and other sharp objects were removed from the top of the landfill in preparation for the FML. Moreover, compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area.

Additional MidAmerica Liner workers arrived on-site, and they staged the Geosynthetic Clay Layer (GCL)/Bentomat and LLDPE in the northern borrow area. The Geonet layer had not been delivered yet. Additional truckloads of LLDPE were delivered to the site and staged in the northern borrow area. A total of 55 rolls of LLDPE were delivered. Additional Geosynthetic Clay Layer deliveries should arrive later in the week. Samples were cut from two lots of GCL liner and sent to H.C. Nutting for destructive testing as specified in the Construction Implementation Work Plan. Installation of the first layer (Geonet) may start as late as next Wednesday (18 July 01).

Earth Tech's CQA field manager, Joe Krueger, was on-site to oversee the sampling of the landfill liner material delivered thus far. Joe Krueger will be on-site to conduct CQA work during the majority of the liner installation.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Additionally, Earth Tech was periodically discharging pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **7/11/01 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

- Jason Guenther, Site Manager (Earth Tech)
- Earth Tech, additional employees
- Randy Anschultz (Pro Terra)
- Pro-Terra, additional employees
- Bruce George (Geo-Solutions Incorporated)
- Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)
- MidAmerica Liner Company additional employees
- David E. Estes Engineering, Inc. employees (surveyors)
- Alt and Witzig Engineers employees
- Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

The excavation of Interceptor Trench Number 3 was completed. However, Pro Terra and Geo Solutions had some difficulty maintaining the excavation wall stability due to saturated and shifting sand in the trench. Additionally, all of the 4-inch diameter wells in Interceptor Trench Number 3

were removed, and the extraction well was cut to grade and sealed with an air bladder plug. The top of the extraction well was subsequently covered with plastic sheeting.

Re-circulation of groundwater at Interceptor Trench Number 3 was complete, and the trench was backfilled with clean soil from the northern borrow area.

Geo Solutions added powdered bleach to Interceptor Trench Number 1 to break the biopolymer bonds, and re-circulated the solution in the 8-inch diameter wells along Interceptor Trench Number 1. Geo Solutions tested the viscosity of the water in Interceptor Trench Number 1 during re-circulation.

The electrical contractor was on-site to review the force main work plans and evaluate the electrical line tie-ins, etc.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. Whereas, pooled runoff water was drained from various areas of the site. The northern borrow area was almost ready for liner installation. Cut and fill work continued along the south slopes of the landfill. Moreover, compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area.

MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Additionally, MidAmerica Liner staged additional GCL/Bentomat and LLDPE in the northern borrow area. Thirty rolls of Geonet/Transnet liner arrived and was staged in the northern borrow area. Additional truckloads of GCL and LLDPE were delivered to the site and staged in the northern

borrow area. There were a total of 50 rolls of GCL, 55 rolls of LLDPE, and 30 rolls of Geonet. Additional deliveries should arrive later in the week. Samples were cut from the Geonet and LLDPE liner and sent to H.C. Nutting for destructive testing as specified in the Construction Implementation Work Plan. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Additionally, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Moreover, Earth Tech periodically discharged pooled run-off water and/or leachate into the East Fork of Mill Creek from a former backfill slurry mix area near the east end of the slurry wall construction. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.



**12 July 2001 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

The installation of Interceptor Trench Number 3 was completed, and a 3-foot extension was added to the top of the 8-inch diameter extraction well at Interceptor Trench Number 3. The top of the extraction well was covered with plastic sheeting, and all of the 4-inch diameter wells in Interceptor Trench Number 3 were removed. Re-circulation of groundwater at Interceptor Trench Number 3 was complete, and the trench was backfilled with clean soil from the northern borrow area. Additional soil was added to the trench to bring it up to grade. Wet soil from the toe of the landfill was spread across the top of the completed slurry wall and interceptor trench to dry.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. The northern borrow area is almost ready for liner installation. Cut and fill work continued along the south slopes of the landfill. MidAmerica Liner would like to start on the slopes, but they aren't ready yet. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers.

Compaction testing was completed by Alt and Witzig Engineers, whereas David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area and center of the landfill.

MidAmerica Liner Corporation staged additional Geosynthetic Clay Layer (GCL)/Bentomat and LLDPE in the northern borrow area. Additional truckloads of GCL and LLDPE were delivered to the site and staged in the northern borrow area. There were a total of 50 rolls of GCL, 55 rolls of LLDPE, and 90 rolls of Geonet. Additional deliveries were scheduled to arrive in subsequent weeks. Liner samples were cut from the Geonet and sent to H.C. Nutting for destructive testing as specified in the Construction Implementation Work Plan. Installation of the first layer (Geonet) should start next Tuesday (17 July 01) according to Henry Steinbaugh of MidAmerica Liner.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

A progress meeting was scheduled for Wednesday (18 July 01) at the site trailer. Much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**13 July 01 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. The northern borrow area is ready for liner installation. Additionally, cut and fill work continued along the south slopes of the landfill. A sheeps foot roller will be used to compact the soil along the side slopes. Also, David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area.

Gas vent GV-3 was run over by a vehicle and damaged accidentally and scheduled to be repaired. GV-7 was leaning 20° to 30° off center as a result of the on-going grading and compacting work.

MidAmerica Liner Corporation staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally,

samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report.

## **PIEZOMETERS**

Piezometer P-12 was leaning 20 to 30 degrees to the east as a result of soil piled up next to it due to the on-going grading and compaction work at the site.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

A progress meeting was scheduled for Wednesday (18 July 01) at the site trailer.

All of the 55-gallon drums were staged in a depression near the center of the landfill. This area will be backfilled with soil from the borrow areas once disposal of the drums is approved. Also, most of the run-off and leachate from the landfill drains to a depression just west of Interceptor Trench Number 2 and eventually drains into the East Fork of Mill Creek. Moreover, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access

one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA planning documents.

**16 July 01 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. The south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. The northern borrow area is ready for liner installation. Additionally, cut and fill work continued along the south slopes of the landfill. A sheeps foot roller will be used to compact the soil along the side slopes. Also, David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area.

Gas vent GV-3 was run over by a vehicle and damaged accidentally and scheduled to be repaired. GV-7 was leaning 20° to 30° off center as a result of the on-going grading and compacting work. And gas vent GV-11 was installed approximately 20 feet to the northwest of piezometer P-12.

MidAmerica Liner Corporation staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's field manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. The starting date for the liner installation may be delayed a few days or weeks until approval to proceed is received. The delay is a result of modifications to the landfill grading plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

A progress meeting was scheduled for Wednesday (18 July 01) at the site trailer. Ben Baker of DOW (PRP SLG-Group), et al were on site.

The silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**17 July 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Randy Anschultz (Pro Terra)  
Pro-Terra, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

All of the 4-inch diameter wells at Interceptor Trench Number 1 remained in place. However, two of the 4-inch diameter wells at Interceptor Trench Number 1 remained in place. All of the 8-inch diameter extraction wells along the interceptor trenches were covered with plastic sheeting. The excavated soil stockpiles from the trench work at Interceptor Trench Number 3 was hauled to the top of the landfill and dumped near the drum staging area to dry. The soil was spread out to dry and incorporated in the landfill. Approval to continue working on Interceptor Trench Number 2 had not been received by U.S. EPA.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

## **LANDFILL CAP CONSTRUCTION**

Grading and soil compaction continued in the southwest, north and northeast sections of the landfill and the northern borrow area. The south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. The northern borrow area is ready for liner installation. Additionally, cut and fill work continued along the south slopes of the landfill. A sheeps foot roller will be used to compact the soil along the side slopes. Also, David E. Estes Engineering, Inc. was on-site to conduct confirmation surveying in the northern borrow area.

Gas vent GV-3 was run over by a vehicle and damaged accidentally and scheduled to be repaired. GV-1 and GV-7 was leaning 20' to 30' off center as a result of the on-going grading and compacting work. And gas vent GV-11 was installed approximately 20 feet to the northwest of Piezometer P-12.

MidAmerica Liner received additional shipments of Geonet liner. Liner installation was scheduled to begin late Wednesday (7/18/01) or Thursday (7/19/01). MidAmerica Liner staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. The starting date for the liner installation may be delayed a few days or weeks until approval to proceed is received. The delay is a result of modifications to the landfill grading plan.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Over-excavation and sampling of both contaminated soil areas GW-38 and BP-01/BP-02 was completed. Three truckloads at 18 to 20 yards per load were removed from GW-38 area. And 24 truckloads of soil were removed from area BP-01/BP-02. Ground water was encountered at the northeast end of area BP-01/BP-02. Additionally, confirmation soil samples were collected and sent to the contract laboratory (Gulf Coast Analytical Laboratory). The excavation at area BP-01 and BP-



02 remained open and surrounded by security fence until laboratory results are received and reviewed. Both excavations will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

## **SURFACE WATER MONITORING and SAMPLING**

Piezometer P-12 was leaning 20 to 30 degrees to the east as a result of soil piled up next to it. The piezometer is in need of straightening.

## **HEATH AND SAFETY**

Most of the MidAmerican Liner workers don't speak fluent English and may not be able to clearly understand the Health and Safety Plan or communicate health and safety concerns in the field unless an interpreter is available. However some of the workers do speak English and therefore, could *interpret for other Non-English speaking workers..*

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix, in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Ben Baker (DOW; PRP) and his contractor from Westech (Tim Auch) were on-site meeting with Rick Warwick (Earth Tech). Westech was hired by DOW to oversee the excavation work and liner installation.

A progress meeting was scheduled for Wednesday (18 July 01) at the site trailer. The silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented.

Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **18 July 2001 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

- Scott Hansen, Remedial Project Manager (U.S. EPA)
- Chuck Melon, Remedial Project Manager (Ohio EPA)
- Ben Baker, PRP (DOW SLG)
- Tim Auch, PRP oversight contractor (Westech)
- Rick Warwick, Project Manager (Earth Tech)
- Ron Roelker, Project Engineer (Earth Tech)
- Jason Guenther, Site Manager (Earth Tech)
- Henry Steinbaugh, Field Supervisor (MidAmerica Liner Company)
- MidAmerica Liner Company additional employees
- Earth Tech, additional employees
- West Chester EMS and community representative
- Mike Ciammaicimella, Project Design Engineer (Pro Terra)

Pro-Terra, additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. Likewise soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech completed very little grading in the southwest, north and northeast sections of the landfill and the northern borrow area. Some progress was lost on the landfill capping due to the recent thunderstorms. Additionally, the west access road received considerable erosion damage and was being repaired. The majority of earth moving was completed along the East Fork of Mill Creek where much of the erosion occurred.

Earlier in the week, the south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. However this work was probably lost due to the thunderstorms. The duck pond was completely filled with water Wednesday.

Gas vent GV-3 was run over by a vehicle and damaged accidentally and scheduled to be repaired. GV-1 and GV-7 was leaning 20' to 30' off center as a result of the on-going grading and compacting work. Gas vent GV-11 was installed approximately 20 feet to the northwest of piezometer P-12.

MidAmerica Liner received additional shipments of Geonet liner. Liner installation was scheduled to begin late Wednesday (7/18/01) or Thursday (7/19/01). MidAmerica Liner staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. The starting date for the liner installation may be delayed a few days or weeks until approval to proceed is received. The delay is a result of modifications to the landfill grading plan.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Contaminated soil area GW-38 was backfilled yesterday (7/17/01). The excavation at area BP-01/BP-02 was filled with water from the recent thunderstorms. The excavation will eventually be dewatered and possibly re-sampled due to problems with the temperature of the samples received at the laboratory. Soil sample temperature was approximately 14 degrees Celsius at the laboratory. The excavation at area BP-01 and BP-02 remained open and surrounded by security fence until laboratory results are received and reviewed. The excavation will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

The silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

A progress meeting was held at the site trailer. Present at the meeting were Scott Hansen (U.S. EPA Remedial Project Manager); Ben Baker (DOW; PRP) and his contractor from Westech (Tim Auch); Ron Roelker, Jason Guenther and Rick Warwick of Earth Tech; Henry Steinbaugh of MidAmerica Liner; a representative from Butler County; Mike Ciammaichella (Pro Terra); and Michael Brady (oversight contractor to the U.S. EPA). Issues covered include:

### **Completed items:**

- Most of the waste material on top of the landfill has been re-graded.
- The slurry wall construction has been completed.
- Interceptor Trench Numbers 1 and Number 3 have been completed.
- Placement of the landfill subgrade has been completed.
- Construction of the west access road has been completed.
- Five piezometers on top of the landfill were installed.
- 95% of the landfill capping material has arrived.

- Liner performance sample results have been completed by H.C. Nutting.

#### New items:

- Seven additional MidAmerica Liner workers were scheduled to arrive Thursday (19 July 01).
- Scott Hansen (U.S. EPA) provided verbal approval to work seven days a week until the landfill liner is installed. Installation may take 30 days.
- Interceptor Trench Number 2 is yet to be completed.
- Erosion control measures were scheduled to be completed soon.
- Drainage control was scheduled to be completed.
- Final landfill cover was scheduled to be completed.
- Creek sampling and surface run-off sampling were scheduled once each month.
- Pro Terra will provide a proposal to install an electric line; approximately 1200 feet aboveground (from the street to the site trailer) and 400 feet underground. Pro Terra was scheduled to start installation next week (23 July 01).
- Ben Baker (PRP DOW-SLG) will provide an erosion control plan between Stations 5 and 7.
- An anchor trench should be installed for the liner.
- Rick Warwick (Earth Tech) is to receive approval for liner installation according to the new landfill grading plan.

#### Questions & Answers

A number of questions were asked by Baker County representative and answered by Ben Baker or an Earth Tech representative.

Q. Have the 55-gallon drums been removed?

A. No. Not yet. The Drum and Tank Sampling Report is under review by Scott Hansen, Remedial Project Manager for the U.S. EPA.

Q. Is the Drum and Tank Sampling Report finished?

A. Yes. It's under review by the U.S. EPA.

Q. Has all of the waste consolidation been completed?

A. Ninety percent of waste consolidation has been completed. Earth Tech is still waiting for laboratory data.

Q. When will the landfill liner installation begin?

A. By the end of the week, if it doesn't rain.

Q. When will the sewer tap work take place?

A. It's yet to be determined.

Q. Have there been any air monitoring problems?

A. None.

Q. Has drainage along the west access road been tested? Does it run into the creek, and is the drainage a natural spring or seep?

A. The drainage from this spring or seep has not been tested.

Additional meeting information:

- Earth Tech was approximately one week behind schedule.
- Pro Terra was approximately three to four weeks behind schedule, but not on a critical path.
- Scott Hansen (U.S. EPA) provided verbal approval to continue work on Interceptor Trench Number 2.
- WESTON is presently reviewing GCL CQA protocol.

The next monthly meeting was scheduled for Wednesday, 22 August 01.

**19 July 2001 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Pro-Terra employees

Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
Bruce George (Geo-Solutions Incorporated)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. Likewise soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location. Silt fences and hay bales were installed along the creek bank near Interceptor Trench Number 2 where the fence was washed out.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue working on Interceptor Trench Number 2 was given by U.S. EPA during the progress meeting at the site trailer.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech completed very little grading in the southwest, north and northeast sections of the landfill and the northern borrow area. Some progress was lost on the landfill capping due to the recent thunderstorms. Additionally, the west access road received considerable erosion damage and was being repaired. The majority of earth moving was completed along the East Fork of Mill Creek where much of the erosion occurred.



Earlier in the week, the south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. However this work was probably lost due to the thunderstorms. The duck pond was completely filled with water Wednesday.

GV-1 and GV-7 was leaning 20' to 30' off center as a result of the on-going grading and compacting work. Gas vent GV-11 was installed approximately 20 feet to the northwest of piezometer P-12.

MidAmerica Liner received additional shipments of Geonet liner. Liner installation was scheduled to begin late Wednesday (7/18/01) or Thursday (7/19/01). MidAmerica Liner staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. The starting date for the liner installation may be delayed a few days or weeks until approval to proceed is received. The delay is a result of modifications to the landfill grading plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

All of the 55-gallon drums were staged in a depression near the center of the landfill. The duck pond was in the process of being dewatered to the 55-gallon drum staging area. The staging area was partly filled with water from the duck pond dewatering.

The silt fence was down or buried in places along the southern perimeter of the site, but efforts were made to install additional erosion control devices.

Soil berms and hay bales were installed along the south perimeter of the landfill.

Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment. Earth Tech said that the issue should be addressed by Mr. Ray Skinner since the rig is outside the landfill's fenced area.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **20 July 2001 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)

Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. Likewise soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location. Silt fences and hay bales were installed along the creek bank near Interceptor Trench Number 2 where the fence was washed out.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue working on Interceptor Trench Number 2 was given by U.S. EPA during the progress meeting at the site trailer.

## **LANDFILL CAP CONSTRUCTION**

Additional fill and compaction work was completed along the south slopes and top of the landfill, and the west access road received considerable erosion damage and was subsequently repaired. Earth Tech completed very little grading in the southwest, north and northeast sections of the landfill and the northern borrow area. Some progress was lost on the landfill capping due to the recent thunderstorms. Additionally, the west access road received considerable erosion damage and was being repaired. The majority of earth moving was completed along the East Fork of Mill Creek where much of the erosion occurred. However, sections of the anchor trench were installed on the south slope of the landfill just southwest of the northern borrow area in preparation for liner installation, and the working platform was widened along Interceptor Trench Number 2 and at the beginning of Interceptor Trench Number 3.

Earlier in the week, the south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. However this work was probably lost due to the thunderstorms. The duck pond was completely filled with water Wednesday.

Gas vent GV-3 was run over by a vehicle and damaged accidentally and scheduled to be repaired. GV-1 and GV-7 was leaning 20° to 30° off center as a result of the on-going grading and compacting work. Gas vent GV-11 was installed approximately 20 feet to the northwest of piezometer P-12.

MidAmerica Liner received additional shipments of Geonet liner. Liner installation was scheduled to begin late Wednesday (7/18/01) or Thursday (7/19/01). MidAmerica Liner staged Geonet, LLDPE and GCL in the northern borrow area. Additional deliveries should arrive next week. Twelve to 15 workers will be on-site to install the liners. MidAmerica Liner workers were on-site filling sand bags for the liner installation work. Approximately 2,000 sand bags will be needed. Rocks and other sharp objects were removed from the top of the landfill in preparation for the Geonet and subsequent liner layers. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. The starting date for the liner installation may be delayed a few days or weeks until approval to proceed is received. The delay is a result of modifications to the landfill grading plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## OTHER ISSUES

The staging area was partly filled with water from the duck pond dewatering and may therefore be creating additional leachate in the landfill. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment. There were no observed deviations with respect to the U.S. EPA approved planning documents.

### 23 July 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Earth Tech, additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Omprakash Patel, U.S. EPA contractor oversight (WESTON)  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. The working platform was being built up and widened as part of the Modified Work Plan for Interceptor Trench Number 2. Additionally, soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location. Silt fences and hay bales were installed along the creek bank near Interceptor Trench Number 2 where the fence was washed out.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue work on Interceptor Trench Number 2 was provided by U.S. EPA during the progress meeting (7/18/01) held at the site trailer.

## **LANDFILL CAP CONSTRUCTION**

Additional fill and compaction work was completed along the south slopes and top of the landfill. Earth Tech continued grading in the north and northeast sections of the landfill and the northern borrow area in preparation for the liner installation. Some progress was lost on the landfill capping work due to the recent thunderstorms. The sub-base needed to be reworked. The majority of earth moving was completed along the East Fork of Mill Creek where much of the erosion occurred. However, sections of the anchor trench were installed on the south slope of the landfill just southwest of the northern borrow area in preparation for liner installation, and the working platform was widened along Interceptor Trench Number 2 and at the beginning of Interceptor Trench Number 3.

Earth Tech received additional shipments of FML. Liner installation was scheduled to begin late Tuesday (7/24/01) or Wednesday (7/25/01). Additional shipments of FML should arrive later this week. Twelve to 15 workers will be on-site to install the liners. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report.

## **CONTAMINATED SOIL EXCAVATION AREAS**

The excavation at area BP-01/BP-02 was partly filled with water from the recent thunderstorms. The soil at the excavation was re-sampled. Seven soil samples plus QA/QC soil samples were

collected at area BP-01/BP-02. The excavation at area BP-01/BP-02 remained open and surrounded by security fence until laboratory results are received and reviewed. The excavation will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan. Likewise contaminated soil area GW-38 was re-sampled. One soil sample and one QA/QC soil sample were collected from area GW-38. The excavation was subsequently backfilled.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**24 July 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
Tim Auch, PRP oversight (Westech)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. The working platform was being built up and widened as part of the Modified Work Plan for Interceptor Trench Number 2. Additionally, soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location. Two PVC drain pipes were exposed at this station, however nothing was draining from them at the time of the site walk. Silt fences and hay bales were installed along the creek bank near Interceptor Trench Number 2 where the fence was washed out.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue work on Interceptor Trench Number 2 was provided by U.S. EPA during the progress meeting (7/18/01) held at the site trailer.



## **LANDFILL CAP CONSTRUCTION**

Additional fill and compaction work was completed along the south slopes and top of the landfill. Earth Tech continued grading in the north and northeast sections of the landfill and the northern borrow area in preparation for the liner installation. Some progress was lost on the landfill capping work due to the recent thunderstorms. The sub-base needed to be reworked. Some work was completed along the East Fork of Mill Creek where much of the erosion occurred. However, sections of the anchor trench were installed on the south slope of the landfill just southwest of the northern borrow area in preparation for liner installation, and the working platform was widened along Interceptor Trench Number 2 and at the beginning of Interceptor Trench Number 3.

MidAmerica Liner began installation of the Geonet, GCL, and FML near the northern borrow area of the landfill. Thirteen MidAmerica Liner workers were on-site to install the liner. Joe Kruger, Construction Quality Assurance Manager for Earth Tech, inspected the liner installation and collected CQA samples in accordance with the approved panel layout plan and Sections 02406, 02415 and 02418 of the Remedial Design Phase I report, respectively. Earth Tech received additional shipments of FML. More shipments should arrive later this week.

MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete, if his field crew is able to work Saturdays and Sundays. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. Likewise field tests were completed on the welded FML using a 'bone' cutter and a tensiometer. Pressure tests have yet to be completed on the welds.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approve planning documents.

### **25 July 2001 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company, additional employees  
Tim Auch, PRP oversight (Westech)  
David E. Estes Engineering, Inc. employees (surveyors)  
Alt and Witzig Engineers employees  
Mark Weidner, U.S. EPA contractor oversight (WESTON)  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

No work was completed along the groundwater interceptor/collection system other than widening and compaction of the working platform adjacent to the trench system. Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Work was being conducted to repair the damage. Likewise soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location. Silt fences and hay bales were installed along the creek bank near Interceptor Trench Number 2 where the fence was washed out.

Part of the excavated soil stockpile from the interceptor trench construction remained in place, and all of the 8-inch diameter wells at each of the interceptor trenches were covered with plastic sheeting.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue working on Interceptor Trench Number 2 was given by U.S. EPA during the progress meeting at the site trailer.

## **LANDFILL CAP CONSTRUCTION**

Additional fill and compaction work was completed along the south slopes and top of the landfill. Earth Tech continued grading in the north and northeast sections of the landfill and the northern borrow area in preparation for the liner installation. Some progress was lost on the landfill capping work due to the recent thunderstorms. The sub-base needed to be reworked. Some work was completed along the East Fork of Mill Creek where much of the erosion occurred. However, sections of the anchor trench were installed on the south slope of the landfill just southwest of the northern borrow area in preparation for liner installation, and the working platform was widened along Interceptor Trench Number 2 and at the beginning of Interceptor Trench Number 3.

MidAmerica Liner continued installation of the Geonet, GCL, and FML near the northern borrow area of the landfill working east to west. Thirteen MidAmerica Liner workers were on-site to

install the liner. Joe Kruger, Construction Quality Assurance Manager for Earth Tech, inspected the liner installation and collected CQA samples in accordance with the approved panel layout plan and Sections 02406, 02415 and 02418 of the Remedial Design Phase I report, respectively. Earth Tech received additional shipments of FML. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete, if his field crew is allowed to work Saturdays and Sundays. Additionally, samples were cut from some of the liner rolls recently delivered and sent to H.C. Nutting for destructive and non-destructive testing as specified in Section 02406, 02415 and 02418 of the Remedial Design Phase I report. Likewise field tests were completed on the welded FML using a 'bone' cutter and a tensiometer. Pressure tests have yet to be completed on the welds.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**26 July 01 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Soil berms, silt fence and a 260-foot length of the chain-link fence near Interceptor Trench Number 2 were washed out last week due to the recent thunderstorms. Much of the creek bank (5 to 6 feet) was washed away, leaving approximately ten linear feet between the centerline of the cut-off wall and the edge of the bank in some areas. Likewise soil berms and silt fence near stake 1+50 were washed out due to the thunderstorms and the chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Verbal approval to continue working on Interceptor Trench Number 2 was given by U.S. EPA during the progress meeting at the site trailer. A truckload of # 4 (AASHTO) gravel was delivered to the site for use at Interceptor Trench Number 2.

## **LANDFILL CAP CONSTRUCTION**

Very little fill and compaction work was completed on top of the landfill, because the equipment was leaving ruts in the surface due to the wet conditions from a recent rain event.

Earlier in the week, the south-southwestern edge of the duck pond was filled in with soil from the borrow areas as part of the cut and fill and grading work at the landfill. Some of this work was probably lost due to the recent rain event. The water level in the duck pond was higher than at the beginning of the week.

MidAmerica Liner was on-site for a short period this morning to determine if they could install FML. However, the soil was too wet to install any of the liner material. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's Field Manager estimates the liner work to take approximately three weeks to complete if his crew is allowed to work Saturdays and Sundays.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**27 July 2001 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

**GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

The soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Additionally, Pro Terra received shipments of equipment and supplies for the construction of Interceptor Trench Number 2.

**LANDFILL CAP CONSTRUCTION**

Fill and compaction repair work was completed on top of the landfill near the northern borrow area in preparation for FML installation. Earth Tech's CQA manager detailed the FML by conducting field performance tests on the liner already installed. The south side of the duck pond was partially filled in with the fill dirt in preparation for the landfill liner installation.

MidAmerica Liner was on-site to determine if they could install FML. However, the soil was still too wet to install any of the liner material, and the areas further west were not sufficiently prepared to install the liner. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's

Field Manager estimates the liner work to take approximately three weeks to complete if his crew is allowed to work Saturdays and Sundays.

## **SURFACE WATER MONITORING and SAMPLING**

Earth Tech completed surface water sampling at four different locations along the East Fork of Mill Creek. Surface water sampling is scheduled once each month at five locations along the creek.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.



**7/30/01 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

### **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra was setting up to complete the construction of Interceptor Trench Number 2. The soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays. Additionally, Pro Terra received shipments of equipment and supplies for the construction of Interceptor Trench Number 2.

### **LANDFILL CAP CONSTRUCTION**

Fill and compaction repair work was completed on top of the landfill near the northern borrow area in preparation for FML installation. Additional surface preparation work (fill and compaction) was completed just west of gas vent GV-3. The south side of the duck pond was partially filled in fill dirt in preparation for the landfill liner installation.

MidAmerica Liner was on-site to install FML. Liner was installed just west of gas vent GV-3. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's field manager estimates the liner work to take approximately three weeks to complete if his crew is allowed to work Saturdays and Sundays.

## HEATH AND SAFETY

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## OTHER ISSUES

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### 31 August 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Scott Hansen, Remedial Project Manager (U.S. EPA)  
Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)

Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

The centerline of the slurry wall near Interceptor Trench Number 2 was re-surveyed by David E. Estes Engineering, at the direction of Ron Roelker (Earth Tech Project Engineer). Pro Terra was setting up to continue the construction of Interceptor Trench Number 2. Pro Terra tied in to the existing portion of Interceptor Trench Number 2, near survey stake 5+90, by removing the granular material and filter fabric after dewatering the trench. Interceptor Trench Number 2 will be constructed from the trench lead-in at approximately 5+20 to survey stake 7+05. Also, the soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill near the northern borrow area and south landfill slopes in preparation for FML installation. Additional surface preparation work (fill and compaction) was completed just west of gas vent GV-3. Also, the south side of the duck pond was partially filled in with the fill dirt in preparation for the landfill liner installation. Moreover, the erosion gully south of GV-3 and near the toe of the landfill, which was cut by the July 17<sup>th</sup> storm, was backfilled and compacted. Earth Tech also continued installing gas vents on top of the landfill.

MidAmerica Liner was on-site to install FML. Liner was installed just west of gas vent GV-3. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's Field Manager estimates the liner work to take approximately four to six weeks to complete if the weather cooperates.

## HEATH AND SAFETY

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## OTHER ISSUES

Scott Hansen, U.S. EPA Remedial Project Manager, was on site to review the remediation work to date. Scott Hansen and Michael Brady conducted a site walk and discussed the critical project issues.

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### 1 August 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Rick Warwick, Project Manager (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)

Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra continued with the construction of Interceptor Trench Number 2 and advanced the trench to the northwest and away from the slurry wall. Pro Terra tied in to the existing portion of Interceptor Trench Number 2, near survey stake 5+90, by removing the granular material and filter fabric after dewatering the trench. Interceptor Trench Number 2 will be constructed from the trench lead-in at approximately 5+20 to survey stake 7+05. The distance between centerline of the slurry wall and Interceptor Trench Number 2 was maintained at approximately 15 feet. Also, the soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill near the northern borrow area and south landfill slopes in preparation for FML installation. Additional surface preparation work (fill and compaction) was completed just west of gas vents GV-3 and GV-7. Earth Tech's CQA manager marked and collected the appropriate number of performance samples from the liner panels. Also, the south side of the duck pond was partially filled in with the fill dirt in preparation for the landfill liner installation, and Earth Tech continued installing gas vents on top of the landfill.

MidAmerica Liner was on-site to install FML. Liner was installed just west of gas vent GV-3. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's Field Manager estimates the liner work to take approximately four to six weeks to complete if the weather cooperates.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Earth Tech prepared to over-excavate and re-sample contaminated soil area BP-01/BP-02 because a few of the most recent soil samples from BP-01/BP-02 contained PAHs above the trigger level. Therefore the area was scheduled to be over-excavated and re-sampled Wednesday (1 August 2001). However, some of Mr. Skinner's roll-off boxes blocked access to the area, and the sampling couldn't be conducted. The excavation at area BP-01/BP-02 remained open and surrounded by security fence until laboratory results are received and reviewed. The excavation will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan. Mr. Skinner voiced complaints about having the excavation at BP-01/BP-02 left open for such an extended period.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **2 August 2001 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra continued with the construction of Interceptor Trench Number 2 and advanced the trench to the northwest and away from the slurry wall. Saturated sand and gravel within the trench created problems with side-wall stability. The trench had to be widened slightly at approximately 6+80 to 7+00. Interceptor Trench Number 2 was constructed from the trench lead-in at approximately 5+20 to survey stake 7+05. The distance between centerline of the slurry wall and Interceptor Trench Number 2 was maintained at approximately 15 feet. Also, the soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill near the northern borrow area and south landfill slopes in preparation for FML installation. Additional surface preparation work (fill and compaction) was completed just west of gas vents GV-3 and GV-7. Soil from the southern borrow area was used for the fill and compaction work. Likewise, the anchor trench near the northern borrow area was backfilled with the liner in place in accordance with the Construction Implementation Plan and Remedial Design Phase I Report.

Earth Tech's CQA Manager marked and collected the appropriate number of performance samples from the liner panels. MidAmerica Liner and Earth Tech deployed and detailed the geocomposite layers, geosynthetic clay layers, and LLDPE layers in accordance with Sections 6.0 of the

Construction Implementation Plan and Sections 02245, 02406, 02415, and 02418 of the Remedial Design Phase I Report.

Liner was installed just west of gas vent GV-3. Thirteen MidAmerica Liner workers signed in on the daily log.

## **CONTAMINATED SOIL EXCAVATION AREAS**

Earth Tech over-excavated and re-sampled contaminated soil area BP-01/BP-02 because a few of the most recent soil samples from BP-01/BP-02 contained PAHs above the trigger level. Three locations within the trench were re-sampled, and QA/QC samples were collected. The excavation at area BP-01/BP-02 remained open and surrounded by security fence until laboratory results are received and reviewed. The excavation will eventually be backfilled with soil from the landfill borrow areas in accordance with Section 2.2 of the Remedial Action Field Sampling Plan.

## **HEATH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.



### **3 August 2001 (Friday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

### **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra completed excavation of Interceptor Trench Number 2. The trench was advanced to the northwest and away from the slurry wall. Saturated sand and gravel within the trench created problems with side-wall stability. The trench had to be widened slightly at approximately 6+80 to 7+00. Interceptor Trench Number 2 was constructed from the trench lead-in at approximately 5+20 to survey stake 7+05. The distance between centerline of the slurry wall and Interceptor Trench Number 2 was maintained at approximately 15 feet. Three 8-inch diameter wells were installed in the trench. Pro Terra re-circulated the bio-polymer and added powdered bleach to the extraction well and the trench to break the polymer chains.

Also, the soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

### **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill along the south landfill slopes in preparation for liner installation. Additional surface preparation work (fill and compaction) was completed just west of gas vents GV-3 and GV-7. Soil from the southern borrow

area was used for the fill and compaction work. Several gas vents were installed on top of the landfill.

Earth Tech's CQA Manager marked and collected the appropriate number of performance samples from the liner panels. MidAmerica Liner and Earth Tech detailed the geocomposite layers, geosynthetic clay layers, and LLDPE layers in accordance with Sections 6.0 of the Construction Implementation Plan and Sections 02245, 02406, 02415, and 02418 of the Remedial Design Phase I Report. All destructive samples passed laboratory performance tests.

No additional liner panels were deployed over exposed sub-base due to the threat of rain. However, the area near the northern borrow area received the final geocomposite drain layer and was secured with plastic wire ties and polymeric thread. Each seam, side seams and end seams, were sewn their entire length. Thirteen MidAmerica Liner workers signed in on the daily log. MidAmerica's Field Manager estimates the liner work to take approximately four to six weeks to complete if the weather cooperates.

## **HEALTH AND SAFETY**

A tailgate meeting was held at the site trailer first thing in the morning. Also, heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site. Work near the interceptor trench was hazardous due to the trench itself and the bio-polymer slurry mix in and around the immediate vicinity. A life preserver attached to a rope was available in case of slip, trip and fall hazards.

## **OTHER ISSUES**

Burgess and Niple Engineering and Architecture, Inc. was on-site to replace David E. Estes Engineering, Inc. as the contract surveyors for the project. Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Also, much of the silt fence was down or buried in places along the southern perimeter of the site. Additional silt fence, hay bales, or other erosion control measures along the perimeter have yet to be implemented. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

**6 August 2001 (Monday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Michael Brady, U.S. EPA contractor oversight (WESTON)

#### **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra was on-site to prepare for the installation of the force main system. Pro Terra purged trench water from Interceptor Trench Number 3 in preparation for the force main work.

Also, the soil berms, silt fence and chain-link fence near Interceptor Trench Number 2 were still in need of repair. Likewise soil berms and silt fence near stake 1+50 were still in need of repair. The chain-link fence was separated from the ground at this location.

Trench construction was delayed due to construction problems, bad weather, and material delivery delays.

#### **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill along the south landfill slopes in preparation for liner installation. Additionally, a soil berm was constructed adjacent to the duck pond.

Liner panels were deployed over the prepared sub-base along the south slope of the landfill. Twelve MidAmerica Liner workers signed in on the daily log.

## **HEATH AND SAFETY**

Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. It's estimated that work on top of the liner is 10 to 20 degrees warmer than elsewhere on-site. Two MidAmerican Liner employees complained of heat rash twice since the beginning of the liner installation work.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

## **OTHER ISSUES**

Burgess and Niple Engineering and Architecture, Inc. was on-site to replace David E. Estes Engineering, Inc. as the contract surveyors for the project. Earth Tech continued pumping water from the duck pond to the depression in the drum staging area. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **7 August 2001 (Tuesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

- Jason Guenther, Site Manager (Earth Tech)
- Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)
- Earth Tech, additional employees
- Bruce George (Geo-Solutions Incorporated)
- Pro-Terra employees
- Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)
- MidAmerica Liner Company additional employees
- David E. Estes Engineering, Inc. employees (surveyors)
- Burgess and Niple (surveyors)
- Alt and Witzig Engineers employees
- Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra was on-site to begin the installation of the force main system. The force main system construction will begin near Extraction Well Number 3 at the west end of Interceptor Trench

Number 3. The force main will extend to Extraction Well Number 1 at the west end of Interceptor Trench Number 1.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued fill and compaction repair work on top of the landfill along the south landfill slopes in preparation for liner installation. Earth Tech is well ahead of MidAmerican Liner in sub-base preparation.

Liner panels were deployed over the prepared sub-base along the south slope of the landfill. Twelve MidAmerica Liner workers signed in on the daily log.

## **HEALTH AND SAFETY**

Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. It's estimated that work on top of the liner is 10 to 20 degrees warmer than elsewhere on-site.

Slip, trip and fall and working around heavy equipment were the most common health and safety concerns at the site.

## **OTHER ISSUES**

Earth Tech began purging the liquid from the 55-gallon drums staged in a depression near the center of the landfill. The liquid from the drums will be disposed off-site, and the remaining drums will be crushed and buried in-place within the landfill. This area will subsequently be backfilled with soil from the borrow areas and capped with liner.

Burgess and Niple Engineering and Architecture, Inc. was on-site to replace David E. Estes Engineering, Inc. as the contract surveyors for the project. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

## **8 August 2001 (Wednesday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)

Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Hilvert and Pope (electrical contractors)  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra was on-site to continue construction of the force main system. Likewise, Hilvert and Pope (electrical contractors) was on-site to install the electrical conduit and make the electrical connections to the system. Force main system construction began near extraction well Number 3 at the west end of Interceptor trench Number 3. Two inspection manholes were installed in the 4-foot deep trench near Interceptor Trench Number 3. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and 2-inch diameter force main pipe, respectively. A flow meter and butterfly valves were installed in the force main line. The force main will extend to extraction well Number 1 at the west end of Interceptor Trench Number 1.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued sub-base preparation along the south landfill slopes in preparation for liner installation. Earth Tech is slightly ahead of MidAmerican Liner in sub-base preparation. However, MidAmerica was prevented from deploying liner panels further to the west because of the 'spongy' conditions of the sub-base. Therefore, MidAmerica completed the detail work on the installed liner in accordance with Sections 6.0 of the Construction Implementation Plan and Sections 02245, 02406, 02415, and 02418 of the Remedial Design Phase I Report. Twelve MidAmerica Liner workers signed in on the daily log.

## **HEATH AND SAFETY**

Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours. The ambient temperature at the site was 102 degrees Fahrenheit, whereas the LLDPE surface temperature was 128 degrees Fahrenheit at 1300.

Slip, trip and fall, working around heavy equipment, and heat stress were the most common health and safety concerns at the site.

## **OTHER ISSUES**

Earth Tech completed purging the liquid from the 55-gallon drums staged in a depression near the center of the landfill. The liquid from the drums will be disposed off-site. The remaining drums within the staging area were crushed with a bulldozer and buried in-place. Approximately three to four feet of soil was used to fill in the depression, and a sheeps-foot roller was used to compact the soil at this location. This area will subsequently be capped with the liner material.

Burgess and Niple Engineering and Architecture, Inc. was on-site to replace David E. Estes Engineering, Inc. as the contract surveyors for the project. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.

### **9 August 2001 (Thursday)**

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)  
Joe Kruger, Construction Quality Assurance Manager, (Earth Tech)  
Earth Tech, additional employees  
Bruce George (Geo-Solutions Incorporated)  
Pro-Terra employees  
Henry Steinbaugh, Field Supervisor, (MidAmerica Liner Company)  
MidAmerica Liner Company additional employees  
David E. Estes Engineering, Inc. employees (surveyors)  
Burgess and Niple (surveyors)  
Alt and Witzig Engineers employees  
Hilvert and Pope (electrical contractors)  
Michael Brady, U.S. EPA contractor oversight (WESTON)

## **GROUNDWATER INTERCEPTION/COLLECTION SYSTEM CONSTRUCTION**

Pro Terra was on-site to continue construction of the force main system. Likewise, Hilvert and Pope (electrical contractors) was on-site to install the electrical conduit and make the electrical connections to the system. Force main system construction began near Extraction Well Number 3 at the west end of Interceptor trench Number 3.

Three inspection manholes were installed in the 4-foot deep trench near Interceptor Trench Number 3. The trench was advanced to the east end of Interceptor Trench Number 3. Compacted granular backfill and sand bedding were used to stabilize the inspection manholes and the three

force main conduits, respectively. A flow meter and butterfly valves were installed in the force main line. The electrical conduit and the communications conduit were installed in the trench also. The force main system will extend to Extraction Well Number 1 at the west end of Interceptor trench Number 1.

## **LANDFILL CAP CONSTRUCTION**

Earth Tech continued sub-base preparation along the south landfill slopes in preparation for liner installation. Earth Tech is slightly ahead of MidAmerica Liner in sub-base preparation. Also, there was a threat of rain, and MidAmerica postponed deploying liner panels further to the west. Therefore, MidAmerica completed the detail work on the installed liner in accordance with Sections 6.0 of the Construction Implementation Plan and Sections 02245, 02406, 02415, and 02418 of the Remedial Design Phase I Report. Twelve MidAmerica Liner workers signed in on the daily log.

## **HEALTH AND SAFETY**

Heat stroke, heat rash and heat exhaustion are health and safety concerns during the summer at the site. Most of the contractors were outside with little or no cover 10 to 12 hours.

Slip, trip and fall, working around heavy equipment, and heat stress were the most common health and safety concerns at the site.

## **OTHER ISSUES**

Earth Tech continued fill and compaction work at the drum staging area. Approximately three to four feet of soil was used to fill in the depression, and a sheeps-foot roller was used to compact the soil at this location. This area will subsequently be capped with the liner material.

Materials arrived for construction of the gabion baskets needed to reinforce the cut bank along the East Fork of Mill Creek near Interceptor Trench Number 2.

Burgess and Niple Engineering and Architecture, Inc. was on-site to replace David E. Estes Engineering, Inc. as the contract surveyors for the project. Diesel fuel, oil, or another liquid was slowly leaking from the Skinner dipper rig that was moved to access one of the two PCB soil contamination areas. The liquid was contained in a shallow pan with no secondary containment.

There were no observed deviations with respect to the U.S. EPA approved planning documents.



**COPIES FROM THE FIELD LOG BOOK**

6/18/01 - Monday

2:30 PM - G Horn on site and sign in.

2:45 PM - Spoke to Aaron. Pro Terra  
finish 1st of trench. moving  
excess slurry to dehydrate and then  
put a cap.

3:00 - Work on top of landfill. To  
regrade site, using two truck and  
2 dozers to move material.

3:15 - Talked to Randy + Rick on  
progress. Hope to catch up on  
schedule within next couple of  
weeks. Will continue to work  
Saturday. Plan to start hire after  
July 4.

3:20 - Water Truck on site to spray  
down roads for dust control.

- MTC scheduled for 10:30 AM on  
Wednesday - GPA to be in attendance.

5:00 PM - Left site for the day.

6/18/01

6/20/01 Wednesday

8:00 AM - arrive on site + sign in.

9:10 AM - Water truck on site for dust control

Slurry trench completed and center line staked. Proterra in process of cleaning up batch plant.

Proterra cutting slots in 4" PVC pipe for drainage. Using 2 people while cutting, both wearing hearing protection

9:20 - large stone distributed along access road next to creek. South Tech staking center line of slurry wall. Drainage pumps removing some standing water

Perimeter fencing still hanging but its inaccessible because of slurry wall.

Snow fencing and silt fencing are in good repair.

Work continues on Top of landfill loading up Valuers and moving debris down.

9:40 - Day or so left for moving knob on south end.

11:10 - Meeting at site Trailer - monthly meeting.

Update of construction

① Slurry wall complete

② Interceptor Trench start today weather permitting

③ work accomplished since last mtg

- slurry wall; drainage, re grade
- 1 well abandoned GWZ1

will be made part of certification report

- movement of Ray's equipment

- agreement with Ray on moving  
contaminated soil up near entrance

④ Report to be submitted to Ben on results  
+ recommendations of drums & Tank sampling  
Tank that contained glove still reads  
decision on disposal

⑤ Plan to work on Saturdays 7-3:30  
for duration of interceptor trench

⑥ All slurry tests on slurry passed

⑦ some locations couldn't get into BR  
the specified amount because of refusal.

⑧ still issue of driving too fast on road

⑨ Surface water samples for June are  
still in lab.

⑩ Proterra should be tying into  
sewer in mid July. Issue on anchoring  
with county

⑪ Trustee meeting August 21<sup>st</sup>

⑫ Scott - grading plan still working  
on. On having some in VHI looking  
at it. Should have answer this week

⑬ Ron owes Scott a letter on change  
in down post. Also owes fence  
realignement & change in r.p. prop where  
fence is unsupported.

⑭ Documentation on hydraulic spills will  
go as monthly. Ron has a letter from Bg  
on changes being made.

⑮ Trying to get surveyor in today  
for final on slurry trench

⑯ UT. lity coming out Thursday 11:00 am  
to discuss overhead power

⑰ Start piezometer installation next week

Start Tuesday - Bowser Morner; 5 FSTd

(16) will have info on slurry wall breach area hit CMP in monthly.

(17) River crew start week of 9 July, store in north Corran area.

(18) 15-20 Trucks to bring in liner

(19) No safety issues; contaminant levels mostly below 5.

recordable (20) 1 injury by both Teel - strainer  
back when pulling silt fence; Result  
of A.W. guy who went to hospital - not getting

(21) 16-17 workers on site now.

mid America probably have 15.

(22) Next meeting July 18th 11:00 AM

Meeting finished 11:50 AM

Noon - Left site

6/18/01

6/22/01 Friday 0900 - arrived at Skinner L.F. and signed in. Cloudy, cool, 60°, rained yesterday and last night, very wet.

0915 - Spoke with Spoor from EIT. Continuing to regrade waste, Proterra began constructing interceptor trench yesterday, completed ~ 50 ft, also regraded waste yesterday. Proterra continuing work on interceptor trench today.

0920 Water truck on-site, track-hoe operator working on access road. Walking to where interceptor trench is being worked on, access road is flooded, cannot go any further.

0930 Surveyors on-site, water truck on top also.

0940 one track-hoe moving waste right now.

1000 Spoke with 50 Mike, showed me work on interceptor trench. Crew is laying Geosynthetic liner in trench. Overlapping layers, then laying gravel on top to weigh down liner. Aaron said trench starts at 13' deep at Sump and ends at 9' deep. Filled trench with polymer to aid in holding trench open. Will eventually add bleach solution to break polymer chain. add polymer while digging to avoid collapse, 4 man crew

working on trench. Designer  
Chris Ryan on-site overseeing  
operation.

10:15 pumping water from  
flooded road and ~~emptying~~<sup>installing</sup>  
draining on other side of  
silt wall. 2 track hoes working  
on moving waste now.

10:26 Crew began to install first  
extraction well. Extraction well  
will be connected to force main.  
Crew has life preserver available  
in case of fall-in.

11:00 2 large frac tanks at  
bottom near entrance to where  
polymer solution is mixed, then  
pumped through hose around to  
interceptor trench.

11:15 Mike from ET said go  
regrading of waste is nearly  
complete.

12:00 left site.

M. Steffens 6/22/01

6/25/01 MANDAN

M. BRADY

1415 C SKINNER L.F. HOT & HUMID 90°F  
 SIGNED IN C-TRAILER SPOKE W/  
 JASON ABOUT L.F. CAPPING & AARON  
 ABOUT SLURRY WALL & INT. TRENCH  
 PROGRESS. JASON'S CREW IS MOVING  
 FILL MTL. AND THE INT. TRENCH  
 IS COMING ALONG. 1/2 DONE ON 1ST  
 SEGMENT.

1445 SPOKE W/ RANDY OF PRO TERRA & BRUCE  
 OF GICO-SOLING ABOUT TRENCH WORK.  
 BRUCE & RANDY AGREE THAT THE TOP  
 & GL OF THE SITE MAKES THE INT.  
 TRENCH WORK V. DIFFICULT.  
 4 WELLS HAVE BEEN INSTALLED THUS  
 FAR. - 2 8-INCH WELLS & 2 4-INCH  
 WELLS. THE 4-INCH WELLS HAVE BEEN  
 INSTALLED AT THE DISCRETION OF THE  
 CONTRACTOR.

1500. RANDY THINKS THAT THEY ARE 2-3  
 DAYS BEHIND SCHED. THEY PLAN ON  
 WORKING SATURDAYS TO CATCH UP.  
 HUG. RAINS LAST WK SHOWED PROGRESS  
 RUN-OFF FLOWS INTO THE TRENCH &  
 AFFECTS THE SLURRY VISCOSITY.

1530. HAVEN'T SEEN THE WATER TRUCK  
 TODAY FOR DUST SUP. IT'S V. DRY &  
 DUSTY.

1600. DISPLACING FILL MTL @ TOP OF L.F.  
 THE CREW IS WORKING AROUND THE  
 55-GAL DRUM STAGING AREA. THE L.F.  
 HAS BEEN BUILT UP AROUND THIS AREA

1700 M. BRADY OFF SITE

6/25/01



126/01 TUESDAY

M. BRADY

1030 M. BRADY @ SKINNER LF. SUNNY WARM 85 F.  
SIGNED IN C SITE TRAILER

1045 SPOKE W/ JASON ABOUT PROG. NORTH LOBBIE  
OF LF. IS BEING CAPPED. E.T. WAITING ON  
AN EXCAVATOR TO REMOVE CONTAM. SOILS FM  
TWO AREAS. DIGGER PG LEAKING DIESEL IN BUCKET

1100 SMALL EXC. IS REMAINING CONT. SOILS FROM  
AREA NEAR FRAC TANKS

1115 INT. TRENCH WORK IN PROG. RANDY HOPES  
TO HAVE TRENCH 1 DONE TODAY OR TOMORROW.  
THERE WERE DUE 4 8-INCH WELLS & 4 4-INCH  
D.O. WELLS WHEN THIS TRENCH IS DONE. WELL  
LENGTHS ARE NOT EXACTLY AS EST.  
ON THE WORK PLANS THE PC400 LONG-REACH  
IS USED FOR THIS TRENCH. E.T. HAS THE  
PC400 UNTIL THE END OF NEXT WK.

1200 E.T. SUPERVISING EXC. DEPTH OF SOIL CONT.  
AS THEY DUG. PHOTO OF EXC.

1230 SOILS FM THE EXC.'S WILL BE PLACED IN  
THE 'PIT' @ THE DRUM STAGING AREA IN  
THE CENTER OF THE LF.

1315 SPOKE W/ JASON ABOUT SCHED. E.T. WILL  
BE WORKING SAT. & POSSIBLY SUNDAY & THE  
4TH OF JULY TO BE READY FOR THE  
FABRIC CAP TO BE PLACED ON THE LF. MID-  
AMERICA LINING WILL MOBILE ON THE 9TH OF  
JULY TO INSTALL LINER. THEY MAY INSTALL  
ONE TO TWO ACRES PER DAY FOR EIGHT WKS.  
MID-AMERICA WILL HAVE A LG CREW OF ~ 15  
WORKERS INSTALLING THE LINER.

1330 SUPERVISORS CONTINUE @ LF FOR GRADING &  
REGRADING. JENNY E.T. ON SITE TO MEET  
W/ BONSTER-MORNER ABOUT WELL INST.

6/26/01 TUESDAY

M. BRADY

1345 ET CONTINUING TO CAP NORTH SIDE OF L.F.  
AND WORK ON EAST INT. TRENCH SEG  
4" GRAVEL USED IN TRENCH 4 FT OVERLAP  
OF JUNCTIONS.

1400 M. BRADY OFF SITE.

6/26/01

8/27/01 WEDNESDAY

1045 M. BRADY ON SITE HOT & HUMID 90°F. SIGNED IN  
C. TRAVEL

1100. SOIL CONT. FILL AREA NEAR SHIPPY MIX PLANT  
COMPLETED. BACKFILLED 7 1/2' DEEP.

1115 JENNY DOWNING F.T. OVERSIGHTING INSTALLATION  
OF MAN. WELL C L.F. SOUTHEAST CORNER P10.  
DOWN TO 25' & STOP IN FILL WITH G.W. MAY BE  
C THE INTERFACE C ~ 40' OR SO.

1130. THE EASTERN MOST INT. TRENCH IS NEARLY  
COMPLETE. IT'S APPROX 350' LONG 4' 8" HIGH  
& 4' 4" WIDE. 100' BLW 8" INCH WELLS.  
WATER TRUCK ON SITE FOR DUST SUPP.

1200 JENNY SAID THAT RON POTELKER WILL MAKE  
A DETERMINATION ABOUT WELL DEPTHS AFTER  
HE PRETENDS SAW. ALT & WITZEL ON SITE TO  
CONDUCT COMP. TESTS.

1240. SOIL CONT. FILL NEAR SKINNER STORAGE YARD  
IN PROGRESS. A TRUCK LOADS THIS FAR  
C 18-20 YDS / TRUCK LOAD.

THE 1ST PCB AREA HAD 16 TRUCK LOADS C  
18-20 YDS / TRUCK LOAD HAULED AWAY TO  
THE TOP OF THE LF.

1310. C P10 INSTALLATION. AUGERS ARE DOWN 40' BGS  
& INTO WATER OR MUD & SHALE. 2" INCH  
SPILT SPOONS USED TO COLLECT SAMPLES.  
SAMPLES ARE FOR FUTURE REF. NOT LAB  
ANALYSIS.

1340. G.W. C 26 TO 38.5' BGS 100+ BLOW CNTS  
OVER 2-INCHES. B.M. DRILLER BELIEVES IT'S  
B/R. JENNY CONTACTED RON POTELKER ABOUT  
SETTING THE WELL SHE'S NOT SURE THAT  
THE BORING IS DEEP ENOUGH. CME 3 SD.

1400 F.T. & PRO TERRA MOVING EQ TOWARD THE WEST

6/27/01 WEDNESDAY.

M. BRADY

TO START 2ND INT. TRENCH  
1410 E.T. CONTINUES CAPPING EAST SIDE  
OF L.F. & BUILDING AN ACCESS RD. ON THE  
WEST SLOPE.

1515 RANDY OF PROTERRA SAID THAT THEY WOULD  
NOT START CONST. OF THE 2ND INT. TR TODAY.  
BUT SET UP FOR TOMORROW.

1600 CONST. OF THE WEST ACCESS RD ON GOING  
USING BULLDOZER ON TRACKS & COMPACTOR.  
NOT SURE IF THEY SHOULD BE USING  
THE TRACK RC. IT MAY TEAR THE FABRIC  
DEFLECT THE CRUSHED STONE.

1640 M. BRADY OFF SITE

6/27/01

6/28/01 THURSDAY

M. BRADY

0800. Call fm OM P. C SKINNER TO MEET @ SITE.

0830 M. BRADY @ SITE @ SKINNER. OM PATEL @ SITE TO DISCUSS PROJECT PROGRESS.

0845. SITE WALK.

0900 C 710 INSTALLATION. JENNY SAID THAT THE WL CAME UP TO 19.5' BGS OVERNIGHT. BORING DEPTH IS C 38.5' BGS BM SETTING WHEN @ THE DEPTH 25' SCREEN.

0925 C INT. TRENCH. QUESTION ABOUT INT. TR ! CUT-OFF WALL OVERLAP AARON BENSON POINTED OUT THE OVERLAP. ETC IN PROGRESS.

1015 OM QUESTIONED THE DISPOSAL OF THE INT. TRENCH ETC. W/IN THE SOIL & WATER IS DARK & THE MT'L SMELLS OF METHANE THE SLURRY WALL IS HOLDING BACK THE OFF SITE DRAINAGE & NOW ETC OF THE INT. TRENCH IS UNCOVERING THE LEACHATE. THE ETC MT'L IS PLACED ON THE SLOPE OF THE LF. OM SUGGESTED THE MT'L BE PLACED ON PLASTIC & THEN DISPOSED W/IN LF CONTAINERS AARON SAID HE WOULD PASS THIS ON.

1040. M. BRADY POINTED OUT AREAS OF H2O SPILLS TO OM SINCE THE CONSTRUCTION OF THE CUT-OFF WALL, THERE'S NO SIGN OF A H2O SPILL OR CONTAINMENT BEEN M. BRADY POINTED OUT THE DRUMMED ABS PILLOWS USED TO PREVENT THE SPILL.

1100. M. BRADY & OM REVIEWED SITE PLANS & SPECS @ THE TRAILER. AM WILL SEND THE DRAWINGS NEXT WK TO THE OFFICE.

1130. 2ND SITE WALK. E-T STILL PLACING ETC SOIL ON SOFT SLOPE OF LF.

1230. AARON BENSON COLLECTED CONF SAMPLES @

6/28/01 THURSDAY

M. BRADY

PCB AREA TPAWZITE BAND IN SKINNER'S STORAGE  
YARD. PHOTO. ELEVEN SAMPLES COLLECTED  
MS/MSD @ EAST BOTTOM SAMPLE PT.

1340 DATE @ PCB AREA AARON SAID THAT BACK FILL  
WILL COME FROM BORROW AREAS

1355 C/P 2 B.M. DOWN 30' 35' WFT BUT NOT  
SATURATED

1415 C INT. TR #2 MIDDLE ~ 100' OF TRENCH  
COMPLETED

INT. TR #1 EASTERN.

STAKE DEPTH

SURVEYED

0+00 12.5

0+10 12.1

0+20 12

0+30 11.8

0+40 11.5

0+50

0+60 10.7

0+70

0+80 10.5

0+90

1+00

1+10 10/10

20 9.5

30 9.5

40 9.5

50 9.5

60 9/9

70 9

80 9

90 9

2+00 9

2+10 9/9

8-INCH WELL

0+35 = 11.8'

4-INCH WELL

11 0+85 = 10.5'/10.5'

8-INCH WELL

1+35 = 9.7'/9.5'

4-INCH WELL

1+85 = 9/9

6/28/01 THURSDAY

M. BRADY

STAKE DEPTH

|      |            |
|------|------------|
| 2+20 | 9          |
| 30   | 9          |
| 40   | 9          |
| 50   | 9          |
| 60   | 9.1 / 9    |
| 70   | 9.5        |
| 80   | 9.5        |
| 90   |            |
| 3+00 | 9.5        |
| 10   | 9.5 / 10   |
| 20   |            |
| 30   |            |
| 40   |            |
| 50   | 9.5        |
| 60   | 9.5 / 10.4 |
| 70   |            |
| 80   |            |

SURVEYED  
8-INCH WELL  
2+35 = 9 / 9

4-INCH WELL  
2+85 = 9.2 / 9.5

8-INCH WELL  
3+35 = 9.5 / 9.7


80 8-INCH EXT. WELL 3+85 10/10  
NOTE: E.T. MEASURED & RECORDED INT. TR  
DEPTHS EVERY 20' LATERAL FEET USING A  
LASER LEVEL AND STADIA ROD. PRELIM.  
TR DEPTHS WERE RECORDED EVERY 10'.  
INT. TR #2 MIDDLE.

STAKE DEPTH

|      |      |
|------|------|
| 3+30 | 7    |
| 3+40 | 14   |
| 3+50 | 14.5 |

8-INCH WELL

1515 JENNY SAID THAT P12 WILL HAVE A 25' SCREEN.  
1615 CONTINUED CONST. OF INT. TR #2  
1645 M. BRADY OFF SITE

 6/28/01

6/29/01 FRIDAY

M. BRADY

1030 M. BRADY ON SITE @ SKINNER LF

Hot &amp; Humid 90°F.

INFO FR. AARON BRADSON

| STAKE | BIR <sup>MB</sup> | KEY <sup>MB</sup> |
|-------|-------------------|-------------------|
| 12+60 | 24.6 28.7         | 32.6 28.7 24.3    |
| 12+70 | 27.7              | 27.7 MB 28        |
| 12+80 | 26.7              | 27.6              |
| 12+90 | 24                | 27.3              |
| 13+00 | 24                | 28                |
| 13+10 | 26                | 28.3              |
| 13+20 | 22.8              | 24.3              |
| 13+30 | 23                | 25                |
| 13+40 | 23                | 25                |
| 13+50 | 20                | 20.5              |

20.5

20

13+52

1130. JENNY & B.M. @ P9 ABOUT TO SET THE  
WREN SCREEN.

| I.D. | I.D. | SCREEN<br>LENGTH | W.L. | BIR       |
|------|------|------------------|------|-----------|
| P10  | 38.5 | 25' SCREEN.      | 19.5 | 5-10' IN. |
| P12  | 38.5 | 25'              | 28.5 | NO BIR    |
| P11  | 28'  | 15'              | 17.6 | NO BIR    |
| P9   | 28'  | 15'              | 16.9 | C 19' BLS |

1210. JENNY SAID THAT P11 & P12 DID NOT GO TO BIR.  
BUT THAT THE SCREEN WAS SET IN A S+G  
THEY SHOULD START ON A 5TH PIEZ. TODAY.

1310. SPOKE W/ AARON ABOUT INT. TR. CONST. PROBLEMS.  
SOIL FRACTURES DEVELOPED PARALLEL TO THE  
SLURRY WALL NEAR THE INT. TR. CONST.  
OF #2. IT APPEARS THAT PART OF THE SLURRY  
WALL MAY SLUMP OFF IN TO THE INT. TR.  
THE CRACKS HAVE DEVELOPED BLW STAKES  
5+70 - 6+40.

THIS MORNING E.T. & PROTERRA HAVE BEEN



6/29/01 Friday

M. Brady

THE POLYMER TRENCH NEAR THE SOIL  
 FRACTURES TO PREVENT POLYMER FM DRAINING  
 OFF SITE BY WAY OF THE FRACTURES  
 E.T. SPECULATES THAT THE SLURRY WALL  
 IS EFFECTIVELY RETAINING RUN OFF &  
 LEACHATE SO MUCH SO THAT THE SOIL  
 ADS TO THE WALL IS SATURATED. THIS HAS  
 BEEN EVIDENCED BY THE EXC. MTL FROM  
 THE INT. TR. SOIL DISCOLORATION. ADDITIONALLY  
 THE POLYMER MAY NOT HAVE PERFORMED  
 ACCORDING TO SPECS. FILTER CAKE NOT FORMED  
 ON SIDE WALLS OF TRENCH. THEREFORE,  
 E.T. & SNBS HAVE DISCONTINUED CONST. OF  
 SL TR #2 & HAVE MOVED EQ. & SUP. TO  
 START CONST. OF SL TR #3 TO THE WEST.  
 A MCH. IS SCHEDULED FOR 1500 TODAY W/  
 BEN ROECKER & SNBS TO DETERMINE WHO  
 WILL PAY FOR REPAIRS.

1330 POOLED WATER / LEACHATE @ STAKES 7+40.7+8  
 ORANGE / YELLOW IN COLOR PHOTOS. THE POOLED  
 WATER ALSO SMELLS.

1430 PROTERRA BEGAN INT. TR #3 EAST END.  
 ~ 8-10' BGS LEACHATE WAS COMING THRU  
 ALONG THE NORTH SIDE OF THE SLURRY  
 WALL CAUSING SLUMPING & SOIL SHUFF  
 INTO THE TRENCH. THE TRENCH SMELLED  
 & THE LIQ WAS ORANGE / YELLOW. RANBY  
 OF PROTERRA DIRECTED THE HIR EQ. OF  
 TO BACKFILL THE INT. TR UNTIL FURTHER  
 NOTICE.

1450 CPG DOWN 20' THRU FILL MTL. WATER @ 16.5' BGS.  
 1515 C 25' BGS. BLW COUNTS = 45/6 + 100/2  
 1520 MCH. HIR BY E.T., PROTERRA & GPO. SOLNS

6/29/01 FRIDAY

M. BRADY

1530 P8 Blaw Counts 100/5 W.L. = 17.6 BG2

1540 E.T. CONTINUES CUT &amp; FILL ON SW LOBE

&amp; REGRADING @ NORTH BORROW AREA

20' SCREEN @ P8

1600 FENCE AND TREES/SHRUBS REMOVED

@ NE POND / DUCK POND

1615 @ SITE TRAILER RON POTELIER SAID THAT

THE SLURRY WALL WAS IMPACTED BY

THE CONSTRUCTION OF THE INT. TR.

∴ PRO TERRA WILL NOW PROVIDE A

REMEDIAL ACTION PLAN TO CORRECT THE

PROBLEM. THE PLAN IS DUE TO RON BY

MON. AFTERNOON. PRO TERRA &amp; GEO. SOLINS

DROVE FOR THE DAY &amp; WON'T BE WORKING

THIS WEEKEND

WORK IS SCHEDULED @ THE L.F. FOR SAT.

BUT NOT THE TRENCH.

1700 M. BRADY OFF SITE

Zing 6/29/01

M. Brian

7/2/01 Monday

11:15 LEFT OFFICE FOR SKINNER

11:50 @ SKINNER L.F. OVERCAST &amp; HUMID. 75 F.

12:10 E-T / PRO-TERRA / GEO. SOL'S WORKING ON THE 3RD LEG (WEST) OF THE INT. TR. TRENCH IS FILLED W/ POLYMER IT APPEARS TO BE A DIFF. CONSISTENCY.

12:15 INT. TR #2 HAS NOT BEEN ADVANCED SINCE LAST FRIDAY (6/29/01) DUE TO ISSUES W/ THE INTEGRITY OF THE CUT-OFF WALL.

12:25 E-T CONTINUING TO DISPLACE FILL MTL @ THE DUCK POND &amp; @ THE SE QUARTER OF THE L.F. REGRADING IS ON GOING, ESTES EMB SURVEYING.

12:30 NOTE: THERE WAS A QUEST. OF WHETHER THE INT. TR SHOULD HAVE BEEN INSTALLED PRIOR TO THE CUT-OFF WALL, AS SHOWN ON THE PRO. SCHEDULE. RECENT PROBLEMS W/ THE CUT OFF WALL INTEGRITY MAY HAVE BEEN AVOIDED IT'S MY UNDERSTANDING THAT BRUCE GEORGE OF GEO. SOL'S MADE THE DECISION TO CHANGE THE SEQUENCE.

13:00 CONTINUED CONST. OF THE INT. TR. FILLED W/ POLYMER. NO PANELS OR WELLS INSTALLED YET.

13:45 BRUCE GEORGE COLLECTED SLURRY FOR VISC. &amp; SP. GR TESTS.

14:00 PLACING FABRIC PANELS IN INT. TR. &amp; GRAVEL TO WEIGHT THE PANELS DOWN. E-T TAKING SOIL FROM SOUTH BORROW AREA.

14:30 JOHNNY DOWNARD SAID THAT THEY MAY ABANDON G.W. 25 TODAY BY GRANTING IN PLACE THIS WELL IS SOUTH OF EAST FORK MILL CREEK &amp; E-T / B-N DOESN'T WANT TO TAKE THE DRILL RM ACROSS THE

7/2/01 MONDAY

M. BRADY

BRIDGE OR CREEK. B.M. MAY NOT HAVE ENOUGH  
HOSE TO ABANDON THE WELL

1450. EACH PIER SURGED SIX TIMES W/A  
SMALL SURGE BLOCK I.E. BULKER PIES.  
WILL BE BULKED NOW TO REMOVE S.T.  
PURGE WATER WILL BE CONTAINED IN  
SALVAGE DRUMS. B.M. OFF SITE.

Done for the day

- 1500 E.T. MOVING LINEAR PILES TO NE AREA  
OF L.F. 28 PILES ARRIVED TODAY.  
38 MORE TO ARRIVE LATER


- 1510 SPOKE W/PON POELKER ABOUT P13, P14  
LOCATIONS AREN'T MARKED ON WORK PLANS.  
POW SAID THEY'D BE INSTALLED ON N & E  
SIDE OF L.F. LOBE. BUT BIP IS ONLY  
3' BGS.

- 1545 PROTERRA INSTALLING 8-INCH WELL @ INT.  
TR #3

- 1615 E.T. CONTINUING TO CAP & GRADE THE SE LOBE.

- 1645 E.T. PROTERRA & SOL'S ADVANCE THE  
INT. TR #3 TO THE WEST.

- 1700 M. BRADY OFF SITE

  
7/2/01

7/31/01 TUESDAY

M. BRADY

1115 LEFT OFFICE FOR SKINNER L.F.

1145 @ SKINNER L.F. Sunny 75°F. PCB CONT.  
 AREA @ SKINNER STORAGE YARD IS STILL  
 AN OPEN EXCAVATION E.T.S. WAITING FOR THE  
 LAB RESULTS OF BACK FILLING THE FCC  
 W/ SOIL FROM THE BORROW AREAS

1200. INT. TR #3 (WEST) STARTS @ 10+35. THIS  
 IS THE LEAD-IN.

10+40

10+50 16.5

10+60 16.5

10+70 16.7

8-INCH WEL

10+80 16.7

10+90 16.8

11+00 17.0

11+10 17.0

11+20 17.0

4-INCH WEL

11+30

INT. TR INST. CONTINUING EXCAVATION IS  
 TO ~ 11+50.

1230. EXCAVATED MTL FROM THE INT. TR HAS BEEN  
 RELOCATED FM THE SOUTH SIDE OF THE  
 LAND FILL TO NEAR THE CENTER OF THE L.F.  
 @ THE SOIL DISPOSAL AREA

1300. JASON GUNTHER SAID THAT MID AMERICA  
 WILL BE ON SITE MONDAY 9 JULY TO BEGIN  
 WORK INSTALLING THE LINER. MID AM  
 WOULD LIKE TO START WORK @ THE WEST  
 END OF THE L.F. BUT E.T. IS STILL CAPPING &  
 COMPACTING IN THIS AREA. THEY MAY HAVE TO  
 START @ THE NE LOBE & N. BORROW AREAS.  
 5 GAS VENTS HAVE BEEN INSTALLED THIS  
 FAR. 10 MORE TO BE INSTALLED AS THE

7/3/01 TUESDAY

M. BRADY

OTHER AREAS OF THE LF ARE CAPPED?  
COMPACTED TO GRADE

1345 JENNY HAS COMPLETED PURGING P11 & 12  
AND IS WORKING ON P8. SHE ATTEMPTED  
TO PURGE P10, BUT IT WOULDN'T CLEAR  
UP; TOO TURBID. SHE'LL REVISIT THAT P.EZ.  
E.T. IS RELYING ON THE APPEARANCE OF THE  
PURGE WATER AS TO WHEN THE P.EZ. IS  
FULLY DEVELOPED. OTHER THAN A PERISTALTIC  
PUMP, NO INSTR. ARE USED. PH, TEMP, DO,  
SP. COND, NOR TURBIDITY METERS USED.

1450 INST. OF INT. TR 3 GOING WELL. ONE  
8-INCH WELL INSTALLED THUS FAR.

1500 E.T. INSTALS A 4-INCH WELL IN THE INT.  
TRENCH @ 11+20.

1515 P.EZ. DEV. NOT DONE IN ACCORDANCE W/ SECTION 3.  
OF THE REM. ACTION FIELD SAMP. PLAN.

1530 E.T. NOT SURE ABOUT THE TOTAL VOL. OF  
SOIL REMOVED FROM CONT. SOIL AREA BP-01  
AND BP-02. I ESTIMATE 35-40 TRUCK  
LOADS @ 18 TO 20 YDS/TRUCK LOAD.  
OVERCAST & LIGHT RAIN NOW.

1545 JENNY DONE PURGING TODAY - OFF SITE.

1615 M. BRADY OFF SITE.



7/3/01

7/5/01 THURSDAY

M. Brady

- 1115 LEFT OFFICE FOR SKINNER L.F.  
1145 C SKINNER L.F. PARTLY CLOUDY & BREEZY 75 F  
SIGNED IN C SITE TRAILER.  
1200 CONT. SOIL AREA BPO1/BPO2 FILL ST. N OPEN  
ORANGE BOUNDARY FENCE PARTLY DOWN.  
1210 POOLED RUN OFF ALONG ACCESS PDS AND OTHER  
AREAS OF THE SITE AS A RESULT OF RAIN  
YESTERDAY. DUST CONTROL NOT NEC.  
1215 WEST ACCESS PD DEVELOPED DEEP PITS.  
& MUD FROM RUN OFF.  
1220 L.F. CAP MIL STUCK PILED C NORTHERN BORROW  
AREA WHERE MIDAM. MAY START MONDAY.  
JASON GUENTHER MAY USE THE DUCK POND  
WATER FOR DUST CONTROL IF APPROVED BY  
RON ROFELKER.  
1230 CONTRACTORS WORKING ON INT. TR #3 C 12+50  
& DUST BLW SHIPPY WAY & INT. TR. STAINED  
BFC ~ 15' C IN TR #2, IT'S 6-8'  
1250 C INT. TR #2. THE TRENCH HAS NOT BEEN  
WORKED ON. SOIL FRACTURES REMAIN.  
HOWEVER, SMALLER SOIL FRACS. MAY HAVE  
BECOME FILLED IN & BURIED AS A RESULT  
OF RUN OFF.  
1300 POOLED LEACHATE & RUN OFF STILL REMAINS C  
7+40 TO 7+50. ORANGE & BROWN.  
1315 MTG. C INT. TR #2 W/ET RON ROFELKER & REK  
WAPWICK & PRO-TERA DESIGN FIRM. MIKE C &  
GREG SOLNS TO DISCUSS CORRECTIVE ACTION PLAN  
MODIFICATIONS. SEVERAL OPTIONS AND RELATED  
ISSUES WERE DISCUSSED. INCLUDING SHEET  
PILING (VIBRATORY & HAMMER), CONSTRUCTION OF  
H/TH INT. TRENCH; OVER-EXCAVATION OF THE INT  
TR #2; DEWATERING THE UPGRADEMENT PORTION

7/05/01 THURSDAY

M. BRADY

THE INT. TR. CONSTRUCTION A HIGHER ELEV. WORK BENCH & WIDER WORK PLATFORM; PLACEMENT OF EXCAVATED MTL ON THE SIDE SLOPES; REMOVAL & STOCK PILING OF EXC. MTL; DISCHARGING POLYMER INTO MILL CREEK; DISCHARGING LEACHATE SURF WATER INTO MILL CREEK; THE PREVAILING SENTIMENT WAS THAT A MODIFIED CONSTRUCTION IMPLEMENTATION PLAN WOULD BE PROVIDED TO RON POFFER BY MIKE C. THIS EVENING. THE PRELIMINARY MODIFICATION WILL INCLUDE DETAILS ABOUT AN ENLARGED WORK PLATFORM @ A HIGHER ELEVATION 2% TO 3% GRADE OVER 100 TO 150'; EXC. MTL WILL EITHER BE PLACED ON THE SOUTH SIDE OF THE TRENCH OR REMOVED AND STOCK PILED ELSEWHERE; REALIGNMENT OF INT. TR #2 - NOT YET FINISHED PORTION. THE EXISTING INT. TR #2 PORTION WILL REMAIN; BACKFILL THAT PORTION OF THE SLURRY WALL THAT HAS COLLAPSED; AND OTHER RELATED ISSUES.

1430. MTG OVER. RON SEEMS TO THINK THAT IT'LL TAKE 3 WKS TO 1 MO. FOR APPROVAL OF THIS MODIFICATION. ON-SITE WERE PRO TERRA MIKE C. AMMA, C. MUEL & BOB NEMERT. REGRADING OF THE WORK PLATFORM @ INT. TR #2 WILL START PRIOR TO APPROVAL OF THE MOD. SINCE IT IS A CONSTRUCTION ISSUE.

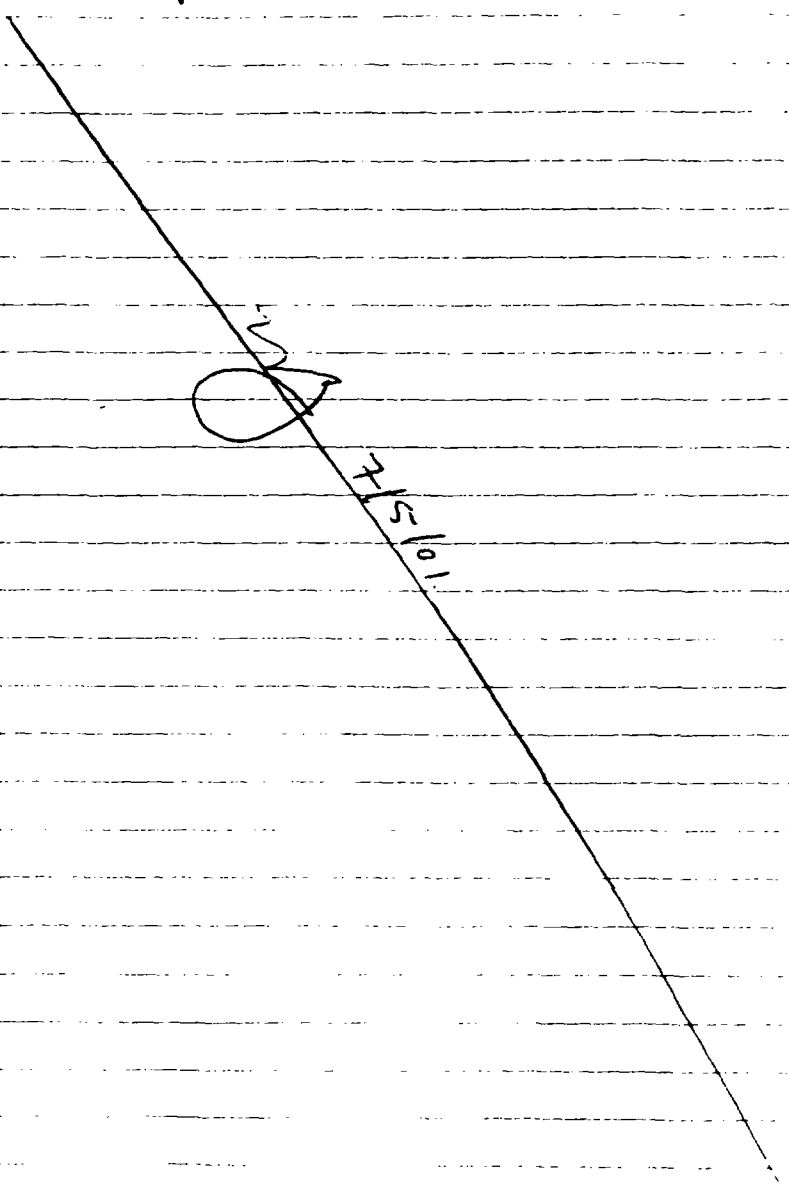
1500 E.T. REGRADING CUT & FILL AREA @ SW CORNER

1635 CONTINUED WORK ON INT. TR #3

NOTE: BRUCE REC. INSTALLATION OF THE CUT-OFF WALL OVER OR PRIOR TO THE INSTALLATION OF THE INTERCEPTOR TRENCH BECAUSE OF



7/05/01 THURSDAY  
THE POSSIBILITY OF WET BENTONITE  
MIGRATING TO THE GRAVEL OF THE  
INT. TR AND FILLING IN POORE SPACES  
THEREBY REDUCING THE EFFECTIVENESS  
OF THE INT. TRENCH.  
1715 M. BRADY OFF SITE



7/6/01 Friday

M. Brady

- 1115 LEFT OFFICE FOR SKINNER L.F.  
 1145 C SKINNER L.F. Sunny & Breezy 70°F  
 CONT. SOIL AREA BPO1/BPO2 Exc. ST. W  
 OPEN BOUNDARY FENCE IN PLACE.  
 1210 E.T. WORKING ON CUT & FILL @ THE  
 CENTER & SW AREA OF THE LAND FILL.  
 1230 THE WORKING PLATFORM NEAR INT. TR #2  
 HAS BEEN WIDENED & LEVELED SLIGHTLY.  
 THE IMPOUNDED SURF. WATER / LEACHATE  
 JUST WEST OF INT. TR #2 IS NOW GONE.  
 COVERED OVER W/ BACK FILL.  
 1300 CONTRACTORS CONTINUE WORK @ INT. TR #3  
 EXCAVATING @ 12+50. A 2ND 8-INCH DIA  
 WELL HAS BEEN INSTALLED @ 11+70.  
 C. DISTANCE B/W SHIPPY WALL & INT. TR  
 APPEARS TO BE 15' OR SO.

|       |      |
|-------|------|
| 11+30 | 17.0 |
| 11+40 | 16.5 |
| 11+50 | 16.5 |
| 11+60 | 16.5 |
| 11+70 | 16.5 |
| 11+80 | 16.7 |
| 11+90 | 16.5 |
| 12+00 | 16.5 |
| 12+10 | —    |

8-INCH WELL.

EXCAVATED MT'L IS LOADED INTO A DUMP  
 TRUCK.

- 1415 THIS AREA OF THE L.F. IS SATURATED  
 W/ LEACHATE HEUD BACK BY THE SHIPPY  
 WALL. MOST OF THE EXC. MT'L IS TRUCKED  
 UP ON TOP OF THE L.F. B/C THERE'S  
 NOT ENOUGH ROOM DOWN BELOW.  
 RANDY OF PROTEERRA SAID THAT SKEP?

7/6/01 FRIDAY

M. BRADY

OF LEACHATE THRU THE TRENCH WALLS  
HAS CREATED PROBLEMS W/ WALL  
STABILITY. PROTEERRA HAS HAD TO  
WIDEN THE TRENCH SLIGHTLY C- 11780.

1445

REVIEWED DAILY QC RPTS.  
SPOKE W/ AARON B. ABOUT SLURRY  
WALL & INT. TR. RON POELKIER BELIEVES  
THAT THE INT. TR. SHOULD HAVE BEEN  
INSTALLED B4 THE SLURRY WALL TO  
HELP DRAIN THE LF. NOW PROTEERRA IS  
INTO SATURATED SAND LENSES &  
HAVING PROBLEMS W/ WALL STABILITY.  
RON WANTS THEM TO USE PILING  
OR TRENCH BOXES IF THERE ARE  
ANY MORE PROBLEMS.

1600 M. BRADY OFF SITE

7/6/01

7/9/01 MONDAY

M. BRADY

1000 LEFT OFFICE FOR SKINNER LF

1030 @ SKINNER LF. HOT + V. HUMID. FEW CLOUDS, 90°F  
ARON BENSON + CREW WORKED SATURDAY 7/7/01.

UNTIL NOON. SO ADVANCED ON IT#3

1045 PROTERRA + GEO SONS STILL WORKING @ IT3  
HEAVY RAIN LAST NIGHT CAUSED THE IT3  
TRENCH + DEPRESSIONS TO FILL + OVERFLOW.  
SOME OVERFLOW IS GOING INTO MILL CRK.  
IT#3 HAD BEEN PUMPED OUT INTO  
MILL CREEK.

1100 VERY MUDDY @ THE SITE

1115 JASON GUNTHER + CREW WORKED SAT.

UNTIL NOON STORM CAME THRU. MUCH  
OF THE NORTHERN BORROW AREA + SIDE  
SLOPES OF THE LF WERE FINISHED.  
ESTES IS COMPLETING FINAL CONFIRMATION  
SURVEYS @ THE N. BORROW AREA STAKES  
ARE RULED AS THEY FINISH SURVEYS.  
THIS IS WHERE MIDAM WILL START  
LAYING THE GREENET LAYER.1130 THE EXC MTL FILL IT#3 IS NOT BEING  
HAULED TO THE TOP OF THE LF BUT  
DUMPED TO THE NORTH OF THE LF.  
SO FAR 3 8-INCH DIA. WELLS HAVE BEEN  
INSTALLED @ IT#3 + 2 4-INCH DIA.

STAKE

DEPTH

12+20

16.0'

12+30

16.0'

12+40

16.0'

12+50

16.0'

12+60

16.0'

12+70

16.5'

12+80

17.0'

4-INCH WELL

8-INCH WELL

7/19/01 Monday

M. Brady

STAKE

DEPTH

12+90

17.5'

13+00.

18.0'

1200. E.T. CONTINUES TO PREP. NORTHERN BORROW AREA & SW. LOBE OF LF. JUMPING DOWNWARD ON SITE TO COLLECT SURF RUNOFF SAMPLES.

1230. SHIPMENT OF BENTONITE ARRIVED. STORED IN PLASTIC & DELIVERED TO THE NORTHERN BORROW AREA. IS POURS.

1300. PRO TERRA & GEO-SPINS NEARLY FINISHED EXC. IT #3. APPROVAL HAS NOT BEEN GIVEN BY EPA TO WORK ON IT #2. PRO TERRA WILL BACKFILL OR CAP IT #1 & 3.

1400. IN. TP #2.

STAKE

DEPTH

3+60.

14'

3+70.

13.5'

3+80.

14'

3+90.

14.5'

6+00.

15'

6+10.

15'

6+20.

-

6+30.

-

6+40.

-

1440. E.T. COLLECTED SURF. WATER SAMPLES NEAR 3+78 JUMPING DOWNWARD.

1450. CONSTRUCTION OF THE SLURRY WALL & IT IS APPROX 4 WKS BEHIND SCHED. ACCORDING TO THE REM. ACTION PLAN CONSTR. SCHEDULE.

1530. NEARLY DONE C IT #3. PRO TERRA'S EXCAVATION THE SUMP C THE WEST END OF THE TRENCH.

7/9/01 MONDAY

M. BRADY

1600 JENNY DOWNARD & I SAMPLED 2ND  
SURF WATER LOCATION.1630. POOLED RUN OFF WATER FROM THE SW  
LOBE OF THE LF FLOWED INTO IT #3  
CAUSING SOME PROBLEMS EARLIER TODAY  
1640. MAB OFF SITE.

7/9/01.

7/10/01 TUESDAY

M. BRADY

- 1000 LEFT OFFICE FOR SKINNER L.F.
1030. C SKINNER L.F. HOT & V. HUMID 85°F
1040. SOIL CONT. AREA BPO1/BPO2 IS STILL AN OPEN EXCAVATION. E.T. IS WAITING FOR LAB RESULTS B/F BACKFILLING.
1100. E.T. & MID. AM LINING CO., HENRY STEINBAUGH. RCVD ANOTHER SHIP OF LLDPE. TOTAL = 55'
- 1145 E.T. TO RECEIVE MORE GCL & GEONET POSSIBLY TODAY. ADD'L MID AM WORKERS TO ARRIVE TODAY & LATER THIS WK. LINER TESTING WILL BE DONE PRIOR TO INSTAL.
1200. E.T. REMOVING ROCKS & SHARP DEBRIS AND PAVING THE N-NE SECTION OF THE L.F.
1230. E.T. IS DONE W/ EXC OF IT#2 FINAL 8-INCH DIA EXTRACTION WELLS INSTALLED @ 18+40.
1300. E.T. GRADING & PAVING N-NE
1330. E.T. COLLECTED SAMPLES FROM TWO GCL LOTS FOR LAB AN.
1350. E.T. DRAINING POOLED WATER FROM THE N. BORROW AREA
1430. PRO TERRA PULLING 4 INCH DIA WELLS USING THE TRACK-HOE.
1450. PRO TERRA PUMPING WATER FROM DOWNGRADIENT WELLS TO UPGRADEMENT PORTION OF TRENCH.
1500. JOE KRUEGER OF E.T. BELIEVES THAT THE L.F. WILL START TO BE LINED MID. NEXT WK. DUE TO DELAY 2 OF M/L DELIVERY - GEONET & LINER TESTING BY H.C. NUTTING.
1530. PRO TERRA PREP ON-SITE EARLIER TODAY. JASON ASKED PRO TERRA TO HAM

7/10/01 TUESDAY

Excavated Mt'l to top of LF as specified  
in the const imp. work plan. Proterra  
had a diff interpretation.

1000. REVIEWED DRUM &amp; TANK SAMPLING RPT.

1615 PROTERRA &amp; GEO SOLNS OFF SITE

1640 M. BRADY OFF SITE



7/10/01



7/11/01 WEDNESDAY

M. Brown

1000 LEFT OFFICE FOR SKINNER

1045 ARRIVED C SKINNER LF &amp; SIGNED IN C

THE SITE TRAILER SUNNY 70°F.

1100. THE EXCAVATION C SOIL CONT. AREA BPO1 &amp; BPO2

REMAINS OPEN W/ SECURITY FENCE AROUND

1115 PRO TERRA WORKING ON IT. #3 NO EXC

BUT CLEANING UP MTL AROUND THE

TRENCH AND WORKING ON THE PC400.

1130. E T FILLING &amp; COMPACTING C THE CENTER

OF THE LF AND NEAR THE DECON PAD

SOIL HAS BEEN DUMPED AND COMPACTED

NEAR THE EDGE OF THE DUCK POND NO

WORD AS TO WHETHER THE POND WILL

BE PUMPED AND FILLED W/ SOIL

1215 SPOKE W/ M. WEIDNER ABOUT WORKING

C THE SITE FOR A FEW HOURS WHILE

THE LINER IS BEING INSTALLED ADD'L

L.F. LINER ARRIVED THIS IS THE

GEOCOMPOSITE / GEONET. TESTING OF THE

LINER IS TO BE COMPLETED BIF

STARTING WORK.

1240 THE ELECTRICAL CONTRACTOR WAS ON SITE

THIS MORNING TO REVIEW THE FORCE.

MEN WORK PLANS &amp; EVALUATE ELECT.

LINE TIE-INS, ETC.

1315 PRO TERRA REMOVED THE 4-INCH DIA

WELLS ALONG IT#3 AND CAPPED THE

TRENCH W/ SOIL TWO OF THE 4-INCH DIA

WELLS C IT#1 REMAIN.

1400 PRO-TERRA CUTTING THE 8-INCH DIA.

EXT. WELL C IT#3 TO GRADE &amp; SEALING

THE WELL W/ A PLUG-BLADDER.

1420 E T GRADING THE SIDE SLOPES OF THE LF.

7/11/01 WEDNESDAY M. BRADY  
1430 SURVEYORS WORKING IN N. BORROW AREA  
1500 E.T. & MAL CUTTING LINER SAMPLES FOR  
DELIVERY TO H.C. NUTTING. SO FAR 30  
PODS OF GRENJET / TRANJET, SS PODS  
OF LLDPE, SEVERAL PALETS OF BENTONITE  
POWDER & SS PODS OF GCI.  
NOTE: SOIL USED TO COVER IT #3 CAME  
FROM THE N. BORROW AREA  
1600 E.T. CONTINUE CUT & FILL & COMPACTION  
IN PREP FOR LINER MAL WORKERS  
FILLING SAND BAGS  
1645 M. BRADY OFF SITE

SS

7/11/01

7/12/01 THURSDAY

M. BRADY

1015 LEFT OFFICE FOR SKINNER L.F.

1045 C SKINNER OVERCAST & 70°F SIGNED IN  
C SITE TRAILER BPO11 BPO2 STILL AN  
OPEN EXCAVATION.

1100 ADD'L ROLLS OF GEONET ARRIVED & WERE  
STAGED IN THE N. BORROW AREA - 90-100 ROLLS

1145 E.T. CONTINUES TO GRADE & COMPACT THE CENTER  
AND SIDE SLOPES OF THE L.F.

1200 E.T. REMOVING DEBRIS FROM THE SIDE OF THE  
L.F. WEST OF IT #2.

1215 PROTIERRA & E.T. COVERED IT #3 W/ SOIL  
& SPREAD SOIL SURF IN THE LOWER AREA  
TO DRILL 3" RISER PLACED ON EXT. W/ ROLL  
C IT #3.

1245 RANTEC R MUD 7. POLYACRYLAMIDE  
EMULSION BIO POLYMER

1310 E.T. NEARLY DONE W/ THE N. BORROW AREA  
& WORKING ON THE SIDE SLOPES

1330 E.T. PUMPING POND WATER FM THE DUCK  
POND TO USE AS DUST CONTROL ON SITE.

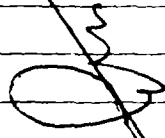
1350 MAL SUPER BELIEVES THEY'LL START  
WORK NEXT TUESDAY. MAL MAY HAVE TWO  
CREWS INSTALLING THE LINERS POSSIBLY  
24 WORKERS. WILL TALK TO M. WELDON  
ABOUT VISITING THE SITE NEXT WK.  
GRADING & SOIL COMP WORK IS BEING  
DONE AROUND THE DRUM STAGING AREA  
APPROVAL FOR DRUM DSP HASN'T BEEN  
GIVEN BY EPA YET.

1430 RICK WARWICK ON SITE AND TWO REPS  
FROM MAL TO DETERMINE IF TWO  
CREWS WILL BE NEEDED TO INSTALL  
THE LINER NEXT WEEK. RICK ALSO

7/12/01 THURSDAY

SAID THAT A PROGRESS MNG. WILL BE  
HELD NEXT WED, 18 JULY 01 @ 10:00  
OR 11:00.

1445 M. BRADY OFF SITE TO WRITE THE  
8-10X PROG. RPT. & EDIT PHOTOS



7/12/01

7/13/01 FRIDAY

M. Brady

1045 LEFT OFFICE FOR SKINNER L.F.

1112 C SKINNER L.F. SUNNY 75°F AREA BP-01!  
BP-02 STILL AN OPEN FACE

1130 WATER TRUCK USED FOR DUST SUPP.  
WATER PUMPED FROM THE DUCK POND  
INTO THE WATER TRUCK.

1215 ADD'L DELIVERIES OF GCL APPROVED!  
MORE TO ARRIVE LATER TODAY & NEXT WK.

1230 SAMPLES HAVE BEEN TAKEN FROM THE  
LIVER PILES & SENT TO H.C. NUTTING  
FOR TESTING.

1240 E.T. STILL GRADING & COMPACTING THE  
SIDE SLOPES AND TOP OF THE L.F.

1245 GAS VENT GV-3 WAS ACCIDENTALLY OR  
INTENTIONALLY REMOVED/FLATTENED  
GAS VENT GV-7 LEANING ~20% TO 30%  
TO THE SOUTH OFF CENTER. GRADING

1250 REF. P-12 IS LEANING 20-30% TO THE  
EAST. DUE TO GRADING & COMPACTION.

1300 SUPERVISORS ON SITE COMPLETING CONF  
SUPERVISORS

1315 SPOKE W/ ALEX, E.T. ABOUT THE GAS VENT.

1330 PRO TERRA & GEO SOLIDS NOT ON SITE TODAY

1400 E.T. HAS DUG UP GV-3, DRIVEN OVER BY  
JASON TO BE REPLACED NEXT WK.

1445 E.T. CONTINUES TO CAP & GRADE THE SE  
SIDE SLOPES OF THE L.F.

1500 E.T. CONTINUES TO PUMP WATER FROM  
THE DUCK POND APPROX 15,000 GALLONS  
OF WATER HAVE BEEN REMOVED SO FAR.  
WATER LEVEL IN THE POND HAS DROPPED  
APPROX 1-2 FT.

1515 A SHEPERS FOOT ROLLER WILL BE USED TO

122

7/13/01 FR. DAY

M. BRADY

COMPACT THE SOIL ON THE S. DE SLOPES.  
1530 GROUNDWATER / LEACHATE HAS BEEN  
DRAINING FROM THE L.F. ALL WEEK.

A VERY DRY WEEK.

1545 REVIEWED DAILY QC RPTS

1610 JASON, E.T. SAID THAT GABION BASKETS  
MAY BE INSTALLED SOON.

1645 M. BRADY OFF SITE



7/13/01

7/10/01 MONDAY

M. BRADY

1015

LEFT OFFICE FOR SKINNER LT  
@ SKINNER LT Sunny, Humid 85°F.

1045

BPO1/BPO2 STILL AN OPEN EXC. SPOKE  
W/ AARON BENSON ABOUT THE TWO SOIL  
EXC. AREAS HE SAID THAT JASON & RON  
ARE WORKING ON DETAILS.

1100.

1115

ADD'L DELIVERIES OF LINER C N BORROW.

SPOKE TO JASON ABOUT OVER-EXCAVATION &  
ADD'L SAMPLING @ THE TWO SOIL EXC. AREAS  
BOTH WILL BE EXC'D & SAMPLED STARTING  
TOMORROW MORNING. I ASKED JASON TO

CONTACT ME WHEN HE KNOWS FOR CERTAIN  
WHEN THIS WILL TAKE PLACE ALSO ASKED  
ABOUT THE MID AM MEXICAN WORKERS  
& READING THE HAST, MSDS ETC. AS  
WELL AS RELAYING INFO IN THE FIELD.

MID AM. WILL HAVE INTERPRETORS MID AM  
DOESN'T HAVE FORMAL WRITTEN PROCEDURES

1130

GAS VENT. GV-3 NOT YET REPAIRED E.T.  
WAS WORKING ON IT LATE FRIDAY.

1200.

GV-11 WAS INSTALLED ABOUT 20' NW OF  
PIEZOMETER P-12. - STILL LEANING TO THE E.  
1215 PROTERRA HAS BEEN ON-SITE MOVING THE  
EXCAVATED TRENCH SOIL TO THE CENTER  
OF THE LT.

1230.

ASKED PROTERRA HUN EQ. OP. ABOUT 4  
STAKES @ SURVEY WALK. THE 4 STAKES  
ARE MARKED W/ EITHER RED PAINT OR  
PINK FLAGS. INT. TR MARKED W/ BLUE FLAGS.

1300.

NOTE: DM TO COME OUT NEXT MONDAY.  
BEN BAKER OF Dow CHEM. SLC GROUP  
ON SITE.

1400.

SPOKE W/ OM ABOUT SOIL FRACS @ IT#2

7/10/01 MONDAY

M. BRADY

I TOLD OM THAT SOIL FRACS ARE @  
 E OF SLURRY WALL @ IT #2 & EXTEND  
 TO THE N. TOWARD THE LT HE SAID THAT  
 HE WOULD BE OUT NEXT MON.

1415 BEN BAKER & OTHERS ON SITE TO LOOK @  
 SLURRY WALL CONST. & IT CONST.

1430. CN BORROW AREA 57 PALS LIDIE,  
 APPROX. 90 PALS TO 100 PALS GREENET.

1500. PRO TERRA CONTINUES TO REMOVE  
 STOCK PILED SOIL FM IT #3 TO THE  
 TOP OF THE LF.

1530. M. BRADY OFF SITE

7/10/01



7/17/01 TUESDAY

0815 LEFT THE OFFICE FOR SKINNER I.T. M. BRADY

0845 C SKINNER LT OVERCAST & HUMID. 75 F.  
OVER EXC. OF THE TWO SOIL CONT. AREAS  
IN PROGRESS GW38 & BP01/BP02.

0900 BEN BAKER ET AL ON SITE PICK UP WAREHOUSE  
ON SITE.

0915 OVER EXC NE END OF AREA BP01/BP02.  
JASON SAID THAT THEY WILL EXC 3 FT.  
IN EVERY DIRECTION 7 SOIL SAMPLES  
WERE ABOVE THE TRIGGER LEVEL.  
3 TRUCK LOADS WERE REMOVED FM  
GW38 @ 18-20 YDS PER TRUCK LOAD

1000 4 TRUCK LOADS IN 45 MINS  
THE 1ST EXC. @ BP01/BP02 (6/28/01)  
TOOK BLW 35' & 40 TRUCK LOADS @  
18-20 YDS / LOAD

1030 RAY SKINNER'S STEP FATHER ON SITE ASKING  
Qs ABOUT THE EXC.

1045 MID AM L. RECEIVED ADD'L POURS OF GEONET

1100 E.T. SETTING UP TO PUMP THE DUCK POND  
OUT. POND WATER WILL BE PUMPED INTO  
THE WATER TRUCK & TO THE CENTER  
OF THE LT NEAR THE DRUM STAGING  
AREA.

1120 CALL FM M. WEINER ABOUT WORKING @  
SKINNER DURING LINE INST.

IT#1 0+00 - 3+85

CUT-OFF WALL 3+78 - 13+50.

IT#2 5+25 - 6+10 UNFINISHED

IT#3 10+35 - 13+50.

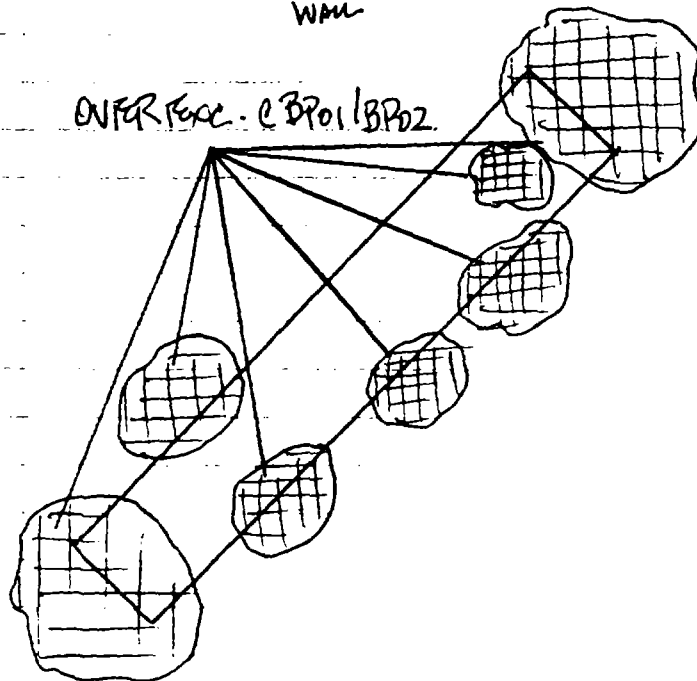
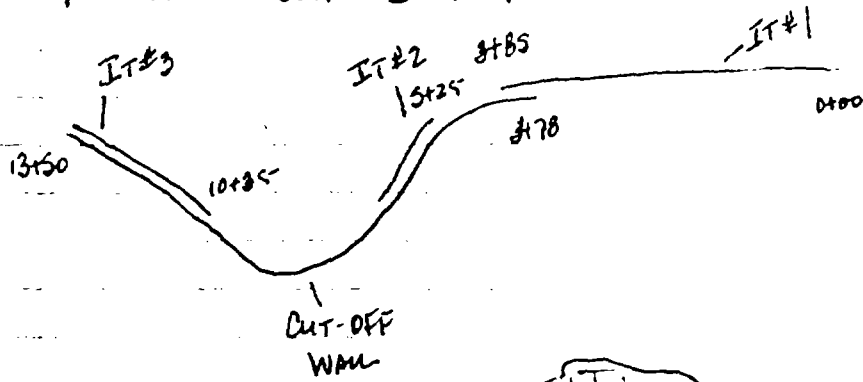
1130 WORD FM JASON IS THAT MID AM L.N. WILL MGR  
THE FIELD CREW TOMORROW; THURSDAY START  
LINING

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7/17/01 TUESDAY

1200 MET BEN BAKER & TIM AUCH OF WESTTECH. M. BRADY  
WESTTECH WAS HIRED BY BEN BAKER TO  
OVERSEE THE LINER INST & SOIL EXC

1230. @ BPO1/BPO2. STILL OVEREX MAT OF  
FILL MT'L BURIED HERE.



1245 GWC NE END OF TRENCH @ BPO1/BPO2.  
APPROX. 12-15' BGS

1315 GAS VENT GV-3 LEAKING 20' TO THE EAST

1330. E.T. IS NOW PUMPING THE WATER FM THE  
DUCK POND INTO THE 55-GAL. DRUM STAGING  
AREA. THIS AREA IS QUICKLY FILLING W/ WATES

7/17/01 TUESDAY

M. BRADY

1400 JASON SAID THAT LINTER WORK SHOULD START THURSDAY IF THE WEATHER IS O.K.

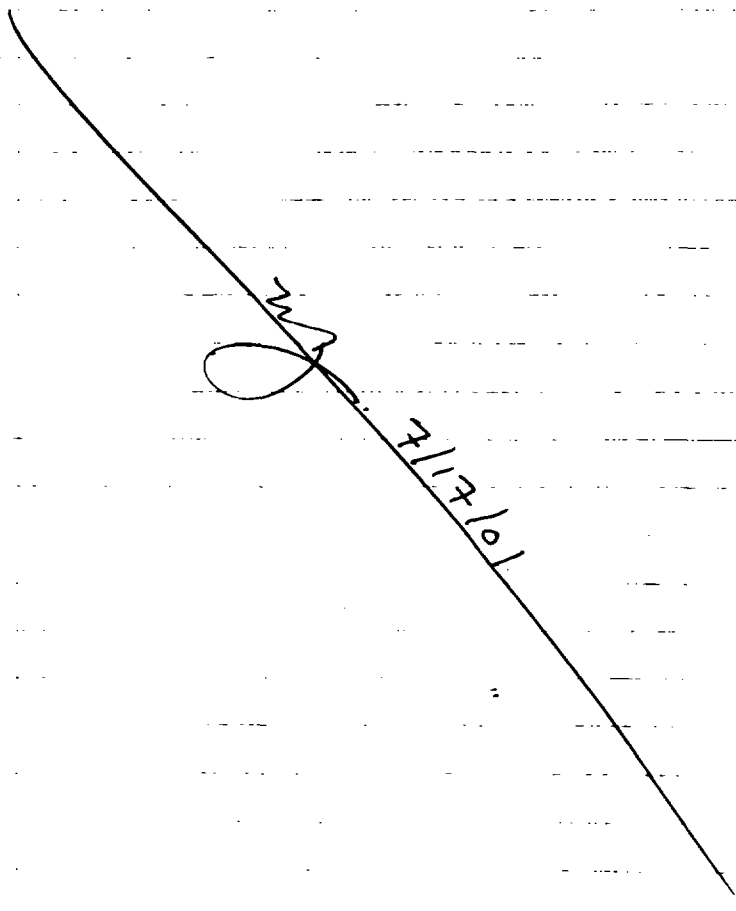
1430. SCHEDULED M. WEIDNER TO COME OUT TO THE SITE THURSDAY (7/19/01) TO REVIEW THE SITE PLANS &amp; CDA DOCS ETC.

1500. APPROX 2 1/2 TRUCK LOADS OF SOIL REMOVED FROM BPO1/BPO2.

1520. AARON DENSON COLLECTS CONT. SOIL SAMPLES FM BPO1/BPO2.

1610. SOIL CONT. GW 38. 9 FT DEEP. 15 FT LONG &amp; 10 FT WIDE

1630. M. BRADY OFF SITE

  
7/17/01

7/18/01 WEDNESDAY.

M. BRADY

0900. LEFT THE OFFICE FOR SKINNER L.F.

0935- @ SKINNER L.F. CLOUDY & HUMID, 75°F  
 BPO1/BPO2 STILL OPEN. EXC. GIBBY FILLED  
 HEAVY RAIN LAST NIGHT, THE SITE IS V.  
 MUDDY. THE CREEK IS V. TURBID &  
 DISCHARGING A LOT OF WATER. PREP. FOR R. &  
 OTHERS ON SITE FOR THE MTG.

0950. SOME DAMAGE TO THE CHAIN LINK FENCE  
 @ THE TOP OF THE L.F. PORTIONS OF  
 THE FENCE WERE GONE, BEAMS ETC.  
 HAVE BEEN WASHED AWAY.

1010. SCOTT HANSEN & OTHERS ON SITE.  
 5-6 FT OF BANK WAS WASHED AWAY.  
 THE T.U. REMAINS BUT SOIL WASHED  
 AWAY. JUNE 20 LAST MTG.

- WASTE REGRADED
- SUPPLY MAN COMPL.
- IT#1 & 3 DONE
- PLACEMENT OF SUBGRADE
- W. ACC. PD. COMPL.
- P.I.E. INSTALLED @ CAP.
- LINER MTIL MOSTLY ON SITE
- GCL PERFORMANCE SAMPLES DONE

NEW ITEMS

7 MID AM WORKERS MOB TODAY.  
 Q. WORKING 7 DAYS/WK UNTIL DONE.  
 W/ 4 LINER LAYERS.  
 A. VERBALLY OK W/ SCOTT.  
 CAP LINER MAY TAKE 30 DAYS.  
 IT#2 CONSTRUCTION.  
 EROSION CONTROL  
 DRAIN CONTROL  
 FINAL L.F. COVER.

7/18/01 WEDNESDAY

M. BRADY

CREEK SAMPLING & RUNOFF SAMPLING

DONIE 1/10

NEXT MO. MTG. 22 AUG. 01 @ 1100AM

E.T. ~ 1 WK BEHIND

PRO TERRA - > 1 WK BEHIND, BUT NOT  
ON A CRITICAL PATH

SCOTT H. - VERBAL TO GO W/ IT#2.

ACCORDING TO MOD. WORK PLAN.

PROPOSAL BY PRO TERRA TO INSTALL

ELECT. LINE ABOVE GROUND FM SITE  
TRAILER

300' UNDERGROUND, 1200' ABOVE GROUND

BEN BAKER - OWES EROSION CONTROL

PLAN B/w STA 5 & 7, LF GRADING PLAN.

GCL CQA TESTING. OM TO LOOK INTO  
THIS ITEM.

ANCHOR TRENCH SHOULD BE INSTALLED  
FOR LINER.

RICK TO PREPARE APPROVAL FOR LINER

INST. ACCORDING TO NEW GRADING PLAN.

PRO TERRA WILL START RUNNING ELECT.  
NEXT WK.

Q. SS. GAL DRUMS REMOVED?

A. S. HANSEN TO APPROVE YET.

Q. IS THERE A DRUM & TANK SAMP RPT.?

A. YES. ON ITS WAY.

Q. HAS ALL WASTE CONSOLIDATION BEEN DONE.

A. 90%. WAITING ON LAB DATA.

Q. CAPPING START DATE?

A. BY END OF WK.

Q. WHEN WILL STEWART TAP BEGIN?

A. WILL BE DETERMINED.

Q. ARE MON. PROBLEMS?

7/18/01 WEDNESDAY

M. BRADY

A. NONE

Q. HAS DRAINAGE ALONG W. ACCESS RD  
BEEN TESTED & DOES IT RUN INTO  
THE CREEK & IS IT A NAT'L SPRING?

A. IT'S NOT BEEN TESTED; IT IS A SEEP  
OR A SPRING

1100 MTG OVER IN ATT. BEN BAKER, TIM AUCH,  
RON FORCER, RICK MARSH, MIKE C. (PROTERRA),  
HENRY STEINBAUGH (MAL), JASON GUENTHER,  
& M. BRADY & CHUCK MEYER. SCOTT HANSEN.

1115 AARON ASKED SCOTT HANSEN ABOUT SOIL  
SAMPLES COLLECTED YESTERDAY. THE LAB  
SAID THAT THE COOLER TEMP. WAS @ ~14°C.  
IT SHOULD BE < 4°C. SCOTT SHOULD GET  
BACK TO AARON TOMORROW ABOUT RESAMPLING  
THE EXCAVATIONS OR HAVING THE LAB  
RUN THE WARM SAMPLES.

1130 SCOTT, H. CHUCK M., TIM A. & M. BRADY  
WALK THE SITE TO REVIEW PROGRESS &  
VIEW THE DAMAGE OF LAST NIGHT'S  
STORM.

1230 E.T. MAKING PREPARETS TO THE SOUTH SIDE  
OF THE LF. REGRADING & CONSTRUCTING  
SOIL BERMS, INSTALLING HAY BALES.

1300 JASON SAID THAT THEY'VE LOST 3 DAYS OF WORK  
ON TOP. FILL & COMPACTION WORK WILL HAVE TO BE  
REDONE.

1345 CALL FM ON RE: THE TANK & DRUM SAMP. RPT.  
DISCUSSED WORK @ THE SITE & DAMAGE FM  
THE STORM.

1350 JASON SAID THAT THE LEACHATE WATER FM  
THE PAIL TRUCK WAS X-FERRED TO A 2ND TANK  
NEAR THE DECON. PAD.

7/18/01 WEDNESDAY

M. BRADY

1420. C H #2, THE DIST BLW THE C OF THE  
CUT OFF WALL & THE CREEK BANK IS ~ 10'

1430. 2ND LOCATION MONA S SIDE OF LF. C 1+50.  
SHOWS ALOT OF EROSION. THE FENCE HAS SEEN  
FM GROUND

1440. G.V. 7 PREPARED.

1445 E.T. TO RAMP OUT BRO1/BRO2 TODAY, BUT NOT  
THE DUCK POND WHICH HAS ~ 5' MORE OF WATER  
FM THE STORM

1450. THE DUCK POND IS BEING RAMPED OUT. THE  
DISCHARGE WATER IS GOING TO THE DRUM  
STAGING AREA & FILLING UP.

1455 CALL FM M. WEINER ABOUT LINER INST.  
M.W. TO COME OUT FRIDAY.

150' TO 200' OF FENCE HAS BEEN WASHED OUT  
FM 5+20 TO 7+80. i.e. 260 FT.

1515 DROPPED OFF FM C. CLICK FOR DEN.

1630. C THE OFFICE



7/18/01

7/19/01 THURSDAY

M. BRADY

1115 LEFT OFFICE FOR SKINNER LF

1200. @ SKINNER LF HOT TV. HUMID 90 F. SIGNED IN @ SITE TRAILER

1230. HENRY S. OF MAL SAID THEY'D START LAYING LINER SATURDAY 7/21/01.

1240. EXC B701/B702 IS FULL OF WATER. SECURITY FENCE SURROUNDS THE PXC.

1250. E.T. IS REGRADING SLOPES &amp; MOVING SOIL FROM THE S. BOTTOM.

1300. ADD'L SHIP. OF GRENNET &amp; GCL. STAGED NEAR THE SITE TRAILER &amp; @ THE SKINNER STORAGE YARD

1315 INFORMED M. WEIDNER THAT WE SHOULD MEET NEXT TUES. 7/24/01. M.W. WILL REVIEW SPECS B/F. TUES.

1330. E.T. IS PUTTING IN SILT FENCE ALONG THE S. PERIMETER NEAR THE CREEK.

1400. SURVEYORS CHECKING GRADES

1410. MAL COVERED PILES OF GCL W/ PLASTIC &amp; SECURED THE PLASTIC W/ SAND BAGS

1430. E.T. CONTINUES TO DEWATER THE DUCK POND. NOT MUCH PROGRESS MADE.

1445. NO ADD'L DELIVERIES OF LINER TODAY. BUT TOMORROW. PC 400 TAKEN OFF SITE.

1500. THE FILL MAT'L ALONG THE S. SLOPE IS ALMOST COMPLETELY COVERED NOW.

1530. ADD'L SPACE IS AVAILABLE NEAR IT #2 &amp; 3 B/C E.T. MOVED THE SOIL FROM PART OF THE SIDE SLOPE.

1540. ADD'L SILT FENCE HAS BEEN INSTALLED ALONG THE CREEK BANK NEAR IT #2. SOIL &amp; ROCK HAVE BEEN DUMPED ALONG THE BANK WHERE THE FENCE IS. GONE. THIS IS TO REINFORCE THE



7/19/01 THURSDAY

M. BRADY

BANK. RIP RAP & GABON BASKETS WILL BE  
PLACED ALONG THE BANK @ A LATER DATE

NOTE: PRO TERRA & GEO SOLINS WERE NOT ON  
SITE TODAY

1030 OFF SITE



M. BRADY

7/19/01

7/20/01 FRIDAY

M. Brady

- 1215 LEFT THE OFFICE FOR SKINNER LF.
- 1300 C SKINNER LF. HOT & V. HUMID 90°F.  
BP-01/BP-02 STILL FILLED W/ WATER.
1330. MAL & JOE KRUGER (E.T.) WILL WORK SAT  
21 JULY 01 INSTALLING LINER. NOT SUNDAY.  
PRO TERRA & GEO SOLNS NOT ON SITE TODAY.
- 1345 E.T. STILL DRAINING THE DUCK POND TO  
THE DRUM STAGING AREA. THE WATER LEVEL  
IN THE DUCK POND MAY NOW BE C THE  
LEVEL WHEN E.T. FIRST BEGAN DRAINING  
ON 7/12/01.
- 1400 STAKES MARKING THE LOCATION OF THE  
ANC TRENCH HAVE BEEN SET UP.  
E.T. CONTINUES TO GRADE & COMPACT THE  
SOUTH SLOPE IN PREP FOR THE LINER.
- 1415 MUCH OF THE SOIL FM THE S BORROW  
AREA HAS BEEN HAULED TO THE TOP & SIDES  
OF THE LF.
1430. ADD'L SILT FENCE & HAY BALES HAVE BEEN  
INSTALLED ALONG THE CREEK BANK FOR  
EROSION CONTROL.
1500. SECTIONS OF THE ANC TR HAVE BEEN EXC.  
NOTE: IN THE WORK PLAN, REFS TO ENG &  
CONTRACTOR MEAN EARTH TECH.
1510. ALL GCL IS COVERED W/ PLASTIC SHEETING  
& WEIGHTED DOWN W/ SAND BAGS.
1530. JASON GUENTHER E.T. SAID THAT PRO TERRA  
WILL BE ON SITE MONDAY TO INSTALL ELECT.  
LINE & FORCE MAIN.
1540. COMPLETED HIS AUDIT FOR JULY.
- 1545 NO WORD YET FM SCOTT HANSEN ABOUT  
RESAMPLING THE TWO CONT. SOIL EXC.  
AREAS B/C OF HIGH SAMPLE TEMPS.

120/01 FRIDAY

1615 E.T. FINAL WORKING OUT DETAILS  
OF THE ANCHOR TRENCH.

M. BRADY

1630. M. BRADY OFF SITE.



7/20/01

7/23/01 MONDAY

M. BRADY

0715 LEFT FOR SKINNER LF. TO MEET W/OM. P.

0745 C SKINNER LF. HOT & HUMID 85°F. ON  
PATEL ON SITE.

0800 M. BRADY &amp; OM WALK THE SITE.

0815 THE SITE IS V. WET NO DUST CONTROL  
ON SITE YET.0830 E.T. CONTINUED TO FILL & COMPACT SOIL.  
MUCH MORE SOIL HAS BEEN ADDED  
TO THE SIDE SLOPES OF THE LF.0900 E.T. CONTINUED TO DEWATER THE  
DUCK POND INTO THE DRUM STAGING  
AREA. THE WATER LEVEL IS NOT YET  
DOWN TO THE SURVEY STAKE.0915 TWO DRAIN PIPES C IT#1 - 3' BGS.  
ONCE USED TO DRAIN THE POOLED  
WATER IN THIS AREA. NO DRAINAGE  
FROM THE TWO PIPES. SILT FENCE  
DOWN IN THIS AREA. SILT FENCE IS  
NEEDED IN SEVERAL AREAS OF THE SITE.0930 MCL PROTERRA & GEO SOLID NOT ON  
SITE TODAY. JASON SAID THAT THE  
ANCHOR TRENCH ENGINEERING NEEDS  
TO BE APPROVED YET. MCL IS ON HOLD.  
PROTERRA MAY START IT#2 THIS WEEK.0945 OM THOUGHT THAT RIP RAP WOULD BE  
A GOOD EROSION CONTROL MTL ALONG THE  
BANK C IT #2.

1000 OM PATEL OFF SITE. CALLED M. WEINER ABOUT LWF.

1015 AARON BENSON ON SITE TO RE. SAMPLE  
GW-38 & BPO1/BPO2.

1045 RAY SKINNER ON SITE.

1050 RAY OFF SITE.

1100 C BPO1/BPO2 W/E T TO RE. SAMPLE SOIL.

7/23/01 MONDAY

M. BRADY

1105 COLLECTING SOIL SAMPLES @ N/E END  
OF TRENCH @ BP01/BP02

1130 A TOTAL OF 7 SAMPLES COLLECTED @ BP01-02.  
PLUS 2 FIELD DUPS & 1 MS/MSD

1150 E.T. Exc. GW38 & COLLECTS 1 FIELD  
SAMPLE & 1 FIELD DUP

1230 E.T. IS RAISING THE WORKING PLATFORM  
IN ELEVATION ~ 2-4' i.e. NEAR IT#2

1320 REVIEWED THE MODIFIED WORK PLAN FM  
EARTH-TECH (PROTERRA)

1400 DONE. FML = FLEXIBLE MEMBRANE LINER  
= LLDPE, HDPE, VLDPE & GCL

7/23/01

M. BRADY

7/24/01 TUESDAY

1100. LEFT OFFICE FOR SKINNER LT.  
 1135 C SKINNER LT. SUNNY. HOT & V. HUMID  
 90°F. SIGNED IN C SITE TRAILER  
 1140. SAW EXC AREA BPO1/BPO2 STILL AN OPEN EXC  
 1145. MAL LINER CREW ON SITE TODAY. MARK  
 WEIDNER IS SCHEDULED TO BE ON SITE  
 THIS AFTERNOON.  
 1210. E.T. IS NOT PRESENTLY PUMPING FM THE  
 DUCK POND, BUT THE WL HAS DROPPED  
 SINCE MON. MORN. THE W.L. IN THE DRUM  
 STAGING AREA IS DOWN ALSO.  
 1230. MAL HAS LINER DOWN IN THE N. BORROW  
 AREA JOE KRUGER & HENRY STEINBAUGH  
 INSPECTING LINER MTL HENRY WOULD  
 LIKE TO WORK SUNDAYS, BUT THERE HASN'T  
 BEEN APPROVAL YET.  
 1330. MAL IS WORKING W/ THE FIRST 3 LINER  
 LAYERS JOE KRUGER CLOSELY WATCHING THE  
 INSTALLATION  
 1415 IT'S CLOUDING UP A BIT. HENRY IS CONCERNED  
 ABOUT THE GCL.  
 1430. RON FOLKNER & OTHER ON SITE  
 1510. JOE KRUGER CHECKS LINER LENGTHS.  
 1530. E.T. IS PREPARING THE NEXT AREA WEST  
 FOR LINER INSTALLATION. E.T. IS PAVING THE  
 AREA  
 1600. MAL INSTALLED - 200 TO 250' OF LINER FM.  
 EAST TO WEST. M. WEIDNER NOT ON SITE  
 TODAY, BUT TOMORROW MORNING.  
 1635 M. BRADY OFF SITE.

7/24/01

7/25/01 WEDNESDAY

M. BRAEN

0715 LEFT FOR SKINNER L.F.

0800 C SKINNER SUNNY. HOT 85°F V. HUMID.

0810 EXC BPO1/BPO2 STILL OPEN SURROUNDED BY SEC. FENCE

0820 LINER CREW MAKING PROGRESS THIS MORNING.  
00% CHANCE OF RAIN THIS AFTERNOON.  
M. WEIDNER SCHEDULED ON SITE TODAY.  
JOE KRUGER ON SITE

0830 E.T. NOT PUMPING DUCK POND.

E.T. CONTINUING TO FILL & COMPACT  
SOIL C CENTER & SIDE SLOPES OF L.F.

0850 JOE K. HAS TAKEN CONFORMANCE TESTS  
ON THE LINER. HE SAID THAT IT IS AIR  
TIGHT. THE LINER CREW USES A LESTER  
TO SEAL THE NET TO THE FABRIC.

JOE K. TAKES A 'BONE' SAMPLE TO  
CHECK FOR AIR-TIGHT SEAL

0930 M. WEIDNER ON SITE CQA INSPECTION.

REVIEW CQA M/M WEIDNER BONE  
SAMPLER. EXTRUSION WELDER. TENSAMETER,  
GENERATORS SHOULD NOT BE RE-FUELED  
ON THE LINER W/OUT A SHIP SHEET.  
EACH FML ROLL SHOULD HAVE A BATCH #,  
LOT # AND ROLL #, THE WELDER SHOULD  
RUN ALL DAY. IT'S TESTED IN MORNING,  
AFTERNOON & @ END OF DAY HDPE WON'T  
WELD TO LDPE, PATCHING REQUIRES  
GRINDING PERPENDICULAR TO SEAM,  
WELDING W/ LESTER (NO BUBBLES).  
GRINDING AGAIN & EXTRUSION WELDING.  
VENT PIPES REQUIRE A BOOT. BENTONITE  
SHOULD BE PAIRED EVENLY - NOT TOO THIN.  
OTHER ITEMS INCLUDE SUBGRADE PREP,

7/25/01 WEDNESDAY.

M. BRAEN

INCREMENT WEATHER AND TRIM SEAMS  
EVERY 5 HOURS USING THE SEAM  
WELDER 'MOUSE'

1030. TIM AUCH, PRP INSPECTOR ON SITE.  
PARTLY CLOUDY SKY.

1200. M. WEDNER OFF SITE

1230. TIM AUCH OFF SITE

1245 MORE CLOUDS AND THE WIND HAS PICKED  
UP. HENRY (MAL) NOT SURE IF HE WILL  
DEPLOY ANY MORE LINTER B/C OF THREAT  
OF RAIN.

1300. MAL DEPLOYS MORE LINTER.

1330. JOE (E.T.) MARKS THE LOCATION OF A  
DESTRUCT TEST. THE PIECE WILL BE  
CUT ONCE THE SEAM IS TESTED IN THE  
FIELD.

1400. FILM DROPPED OFF C. CLICK CAMERA

1430. C. THE OFFICE

7/25/01



M. BRADY

7/26/01 THURSDAY

1100. LEFT FOR SKINNER. LF.

1145 C SKINNER LT. OVERCAST &amp; 75°F.

ET JUST ABOUT DONE FOR THE DAY.

IT'S TOO WET TO WORK THE LEO. IS

LEAVING PUTS IN THE SURFACE.

1210. MIDAM IS NOT LAYING LINTER TODAY

B/C IT'S TOO WET. RAIN IS FORECAST

FOR LATER TODAY.

1230. JASON GURWITZER &amp; CREW ARE PLANNING

ON WORKING TOMORROW. MAL IS ALSO

SCHEDULED TO WORK ON THE LINTER.

1245 WALKED THE SITE TO CHECK PROGRESS

OF MAL V. MUDDY.

1300. THE DUCK POND HAS FULLED W/ WATER

MORE SINCE YESTERDAY. LINTER HAS

BEEN INSTALLED ALMOST TO GAS VENT

GV-2.

1330. LIGHT RAIN.

1415 PLU SITE PHOTOS FM. CLICK CAMERA.

1515 C THE OFFICE. REVIEW PHOTOS.

7/26/01

7/27/01 FRIDAY

M. BRADY

1100. LEFT OFFICE FOR SKINNER LF.

1125 C SKINNER LF SUMMY. 75°F

1145 BPO1/BPO2 STILL AN OPEN EXC. PRO TERRA  
ON SITE TO SET UP THE EQ. & SUPPLIES  
FOR CONSTRUCTION OF IT #2. MIDAMERICA  
IS PREPARING THE L.F. SURFACE FOR  
LINER INSTALLATION. THE SURFACE IS  
STILL TOO WET & HAS TOO MANY ROCKS.  
JOE KRUGER AND MIDAM COA CHECKED  
THE FILL WELDS THIS MORNING. ALL  
PASSED. E.T. CONTINUES TO GRADIE &  
COMPACT SOIL IN PREP. FOR LINER INSTALL.

1230 E.T. HAS MADE A LOT OF PROGRESS DRAINING  
AND FILLING IN THE DUCK POND. THE W.L.  
IS NEARLY DOWN TO THE SURVEY STAKES.

1300. PRO TERRA HAS MOVED THE EXCESS EXC.  
SOIL TO THE EAST END OF IT #3. THE  
SOIL IS SPREAD ON THE GROUND TO DRY.

1315 JASON SAID THAT NO WORK IS SCHED. FOR SAT.

1330. JENNY DOWNARD IS COLLECTING STREAM SAMPLES  
TODAY @ 4 LOCATIONS ALONG THE EAST FORK  
OF MILL CREEK.

1340. NOTE: PRO TERRA IS HAULING THE EXC. SOIL FROM  
IT #3 TO THE TOP OF THE LF. THE SOIL IS  
THEN SPREAD OUT TO DRY.

1350 SOIL JUST WEST OF THE INSTALLED LINER  
IS TOO WET.

1410. JENNY COLLECTED SAMPLES FROM THE CREEK  
NEAR IT #2.

1500. FURTHER UPSTREAM, JENNY COLLECTED  
SAMPLES NEAR BEGIN. OF IT #1. &  
STREAM SAMPLES COLLECTED.

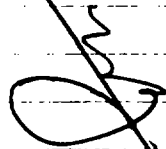
1600. MIDAM. CONTINUES TO PREP.

7/27/01 FRIDAY

THE LF SURFACE FOR LINER INST. M. BRAZ

1415 Fill DIRT BROUGHT TO LOW SPOTS  
ON LF SURFACE IN PREP FOR LINER  
INST.

1430. OFF SITE



7/27/01

7/30/01 MONDAY

M. Prady

1030 LEFT OFFICE FOR SKINNER LF

1115 C SKINNER HOT & HUMID 85°F

3801 BPO2 STILL AN OPEN EXC

PRO TERRA IS ON SITE AS WELL AS

GEO SOLID'S TO CONSTRUCT IT #2.

WORK IN PROGRESS C IT #2

1145 MIDAM WORKED SAT. UNTIL 0930 RAIN.

ONE PANEL WAS PUT DOWN.

1205 E.T. & MIDAM WORKING ON SURF. PREP.

C LANDFILL SOME AREAS OF THE LF.

ARE STILL TOO WET FOR GCL. ESP.

THE TRENCH - ANCHOR TB. MIDAM IS

NOT HAPPY W/ DELAYS & SURF. PREP.

1215 E.T. IS STILL DEWATERING DUCK POND

INTO WATER TRUCKS FOR DUST SUPP

1235 MIDAM HAS TO RUN WATER BACK OFF

SURFACE TO ALLOW THE SOIL TO DRY.

1300 MIDAM DEPLOYING GEONET JUST WEST

OF GV-3. ACCESS RD TO STAGING AREA.

SOME MOISTURE C ANCHOR TRENCH

MIDAM SEEMINGLY THE GEONET ALONG THE

SLOPE ANY SLOPE  $\geq 10\%$

1415 TIM AUCH OFF SITE

1430 MIDAM DEPLOYS GCL - TWO PANELS.


1515 MIDAM DEPLOYS FML LINER

1615 MIDAM DEPLOYS ADD'L GCL THEN IN

WORK UNTIL ~ 1900. IF IT DOESN'T

RAIN.

1645 OFF-SITE

 7/30/01

M. Brady

7/31/01 TUESDAY

0930. LEFT OFFICE FOR SKINNER LF.

1015 C SKINNER LF. HOT. HUMID 90°F.

BPO1/BPO2 STILL OPEN EXC.

PRO TERRA WORKING ON IT#2

MIDAM INSTALLING FML JUST WEST OF  
GV-3.E.T. INSTALLING OTHER GAS VENTS &  
REPAIRING PIPERAMETER THAT WAS  
DAMAGED BY A VEHICLEBURGESS & N. RIE ON-SITE TO SUPERVISE  
INSTALLED LINER1110. THE EROSION TRENCH CUT BY THE 7/17  
T. STORM WAS BACKFILLED & COMPACTED.  
THE TRENCH WAS SOUTH OF GV-3 @ THE  
TOE OF THE LF.1120 PRO TERRA STARTED FOR C S+70 MOVING  
AWAY FROM THE SLURRY WALL

1130. SCOTT HANSEN, U. S. EPA. ON SITE

DISCUSSION ABOUT SOIL FRACTURES, THE  
DRUM STAGING AREA, LINER INST, SOIL EXC.  
AREAS, GLUE TANK, AG. TANK, DIESEL TANK,  
SLURRY WALL & ITS1200. SITE WALK PRO TERRA WORKING ON IT#2.  
THE EXC. IS ANGLED AWAY FM THE SLURRY  
WALL THE ELEVATION @ THE BOTTOM OF  
THE EXC. @ IT#2 WILL DROP 3' FM EAST TO  
WEST ALONG THE LENGTH.1245 MIDAM WORKERS @ LUNCH SCOTT HANSEN  
REVIEWED INSTALLED LINER1315 THE DUCK POND IS NOT BEING  
DEWATERED TODAY. IT APPEARS THAT  
E.T. HAS FILLED IN THE SOUTH  
EDGE OF THE POND.

7/31/01 TUESDAY

1330. SCOTT HAS YET TO REC. A PLAN FOR  
35 GAL DRUM DISPOSAL FM RON FORKNER.1400. E.T. INSTALLING ADD'L GAS VENTS,  
MUDAM. INSTALLING FML, AND PROTERRA  
CONTINUING TO CONSTRUCT IT#2.

1430. SCOTT HANGEN OFF SITE.

1500. PROTERRA INSTALLS FABRIC IN IT#2

1540. M. BRADY OFF SITE

7/31/01

8/1/01 WEDNESDAY

M BRADY

1130. LEFT OFFICE FOR SKINNER LT

1245 @ SKINNER LT AFTER DROPPING TUM OFF

@ CLICK CAMERA SUNNY. V. HOT & HUMID 95°F

1250. AREA BPO1/BPO2 STILL AN OPEN FENCE

SURROUNDED BY SECURITY FENCE E.T

HAS PREPARED TO OVERFENCE & SAMPLE

BPO1/BPO2 BUT RAY SKINNER HAS 3 OR 4

POU-OFF BOXES IN THE WAY. RAY DOES

NOT LIKE THE WORK GOING ON @ BPO1/BPO2

HE SAID THAT IT'S NOT A SAFE PLACE FOR

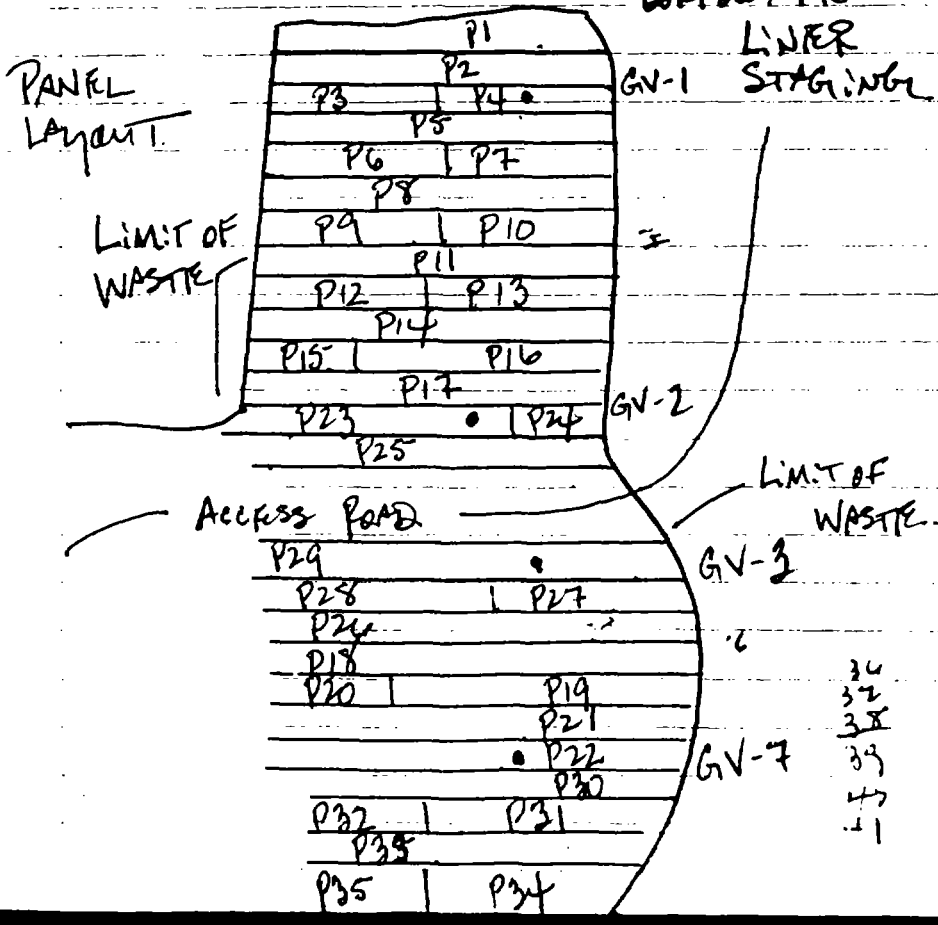
HIS KIDS OR GRANDKIDS TO PLAY. RAY HAS

THREATENED TO CALL HIS ATTORNEY. ABOUT

THIS MATTER

1315 MIDAM MAKING PROGRESS ON FNL INST.

BORROW AREA



8/1/01 WEDNESDAY

M. BRADY

1400

MIDAM CONT. W/RE TO MAKE PROGRESS

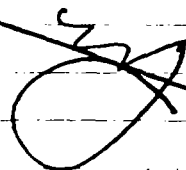
DETAILING OF THE LINER WILL BE DONE  
WHEN THERE'S A CHANCE OF RAIN.

DESTRUCT SAMPLES ARE COLLECTED  
EVERY 500 LINEAR FT. BY E.T. CQA - JOE  
KRUGER. AIR TESTING IS DONE ON EVERY  
SEAM, FAILED SEAMS GREATER THAN 100'  
LONG WILL BE PATCHED AND EXTRUSION  
WELDED. FAILED EXTRUSION WELDS WILL  
ALSO BE PATCHED AND TESTED. SEAMS  
ARE ALSO TESTED WITH A 'V' BOX TO  
CHECK FOR AIR TIGHTNESS. BOOTS ARE  
EXTRUSION WELDED. 'BONE' SAMPLES  
ARE TESTED BY MIDAM ONLY. 'BONE'  
SAMPLES ARE COLLECTED FROM BOTH  
TYPES OF SEAMS. GCL PANELS ARE NOT  
STARTED OR ENDED W/IN 15' OF A SLOPE  
BREAK OR AN ANCHOR TRENCH. LDPE IS  
NOT STARTED OR ENDED W/IN 5' OF A  
SLOPE BREAK OR ANCHOR TRENCH.

1530

PROTEERRA IS CONTINUING TO ADVANCE THE  
IT#2 C - 6+30. NO APPARENT PROBLEMS  
SO FAR @ THE TRENCH. & MEASUREMENTS  
ARE MADE ON A REG. BASIS.

1645 M. BRADY OFF SITE



8/1/01

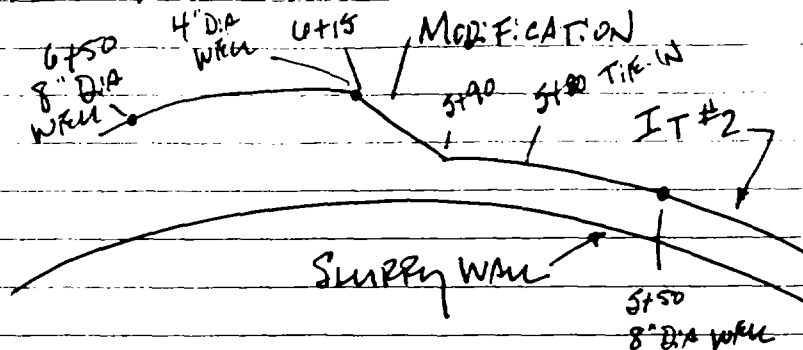


8/2/01 THURSDAY

1200 LEFT OFFICE FOR SKINNER LF & Phil  
PHOTO DISK.

1245 @ SKINNER LF. HOT HUMID 95°F, cloudy

1300. PRO TERRA WORKING @ IT #2



1330 MIDAM COMPLETING DETAIL WORK ON LINER  
TESTING 'BONE' OR 'CARBON' SAMPLES FROM  
TRIAL WELDS & DESTRUCT SAMPLES. I.E.  
PEEL & SHEAR TESTING A.K.A. LINEAR  
OPEN SHOT OR TENSIDOMETER 79 & 84 PSI, RES?  
INSTALLING DOORS AROUND GAS VENTS,  
GRINDING & EXPANSION WELDING. V BOX  
TESTING AKA VAC. BOX.  
AIR TESTING IS TO BE DONE FULLY SOON.  
LINEAR PER MACHINE. JOE KRUGER HAS  
WRITTEN A PROGRAM TO TRACK THIS

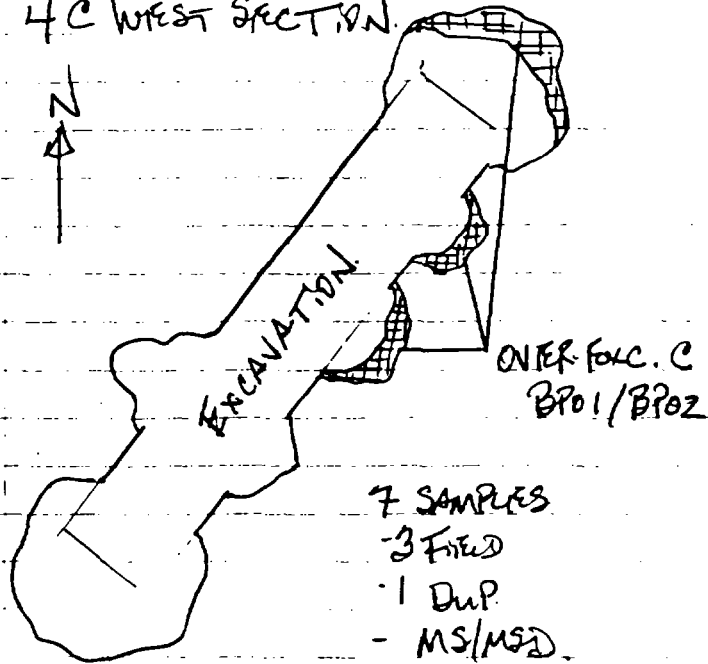
1420. PRO TERRA ADVANCING IT #2. - @ 6+80.  
NO MAJOR PROBLEMS YET FOR

1500 E.T. IS BACKFILLING THE ANCHOR TRENCH  
NEAR THE N. BORROW AREA EARLIER  
TODAY E.T. EXCAVATED AREA BPO1/BPO2  
& WILL COLLECT SAMPLES THIS AFTERNOON

1530. BURGESS & NIPRE ON SITE TO SURVEY  
LINER.

1540. AARON BENSON COLLECTED CONF. SAMPLES  
@ BPO1/BPO2. 3 FIELD. 1 DU? & 1 MS/MSD

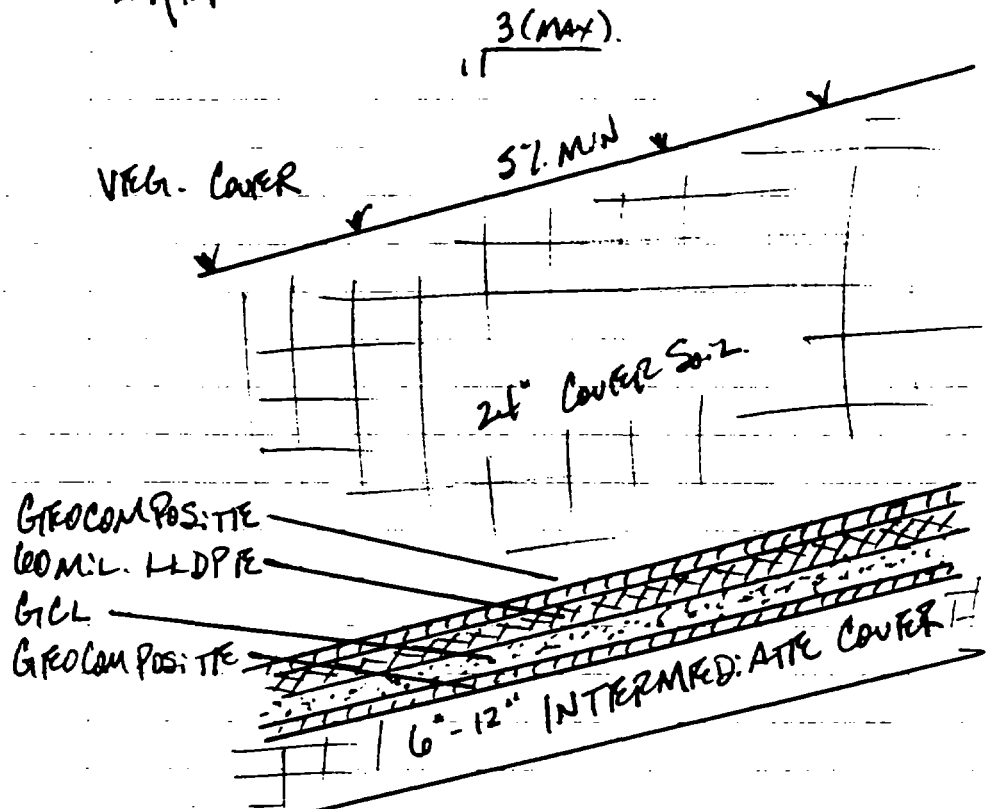
8/21/01 THURSDAY.

1545 E.T. CONTINUES TO REMOVE SOIL FROM THE  
2 BORROW AREA. M. BRADY1615 MIDAM. WRAPPING UP THE WORK FOR THE  
DAY. POSSIBLE RAIN TONIGHT & TOMORROW  
A TOTAL OF 9 DESTRUCT. SAMPLES  
TAKEN SO FAR 5C EAST SECTION &  
4C WEST SECTION.1635 PRO TERRA RAN INTO SATURATED SIG  
& HAVING PROBLEMS W/ SIDE WALL STABILITY.  
THE LOWER PORTION OF THE EXC. COLLAPSES  
SOMEWHAT DURING THE EXC WORK

- 1645 M. BRADY OFF SITE

229  
8/2/01

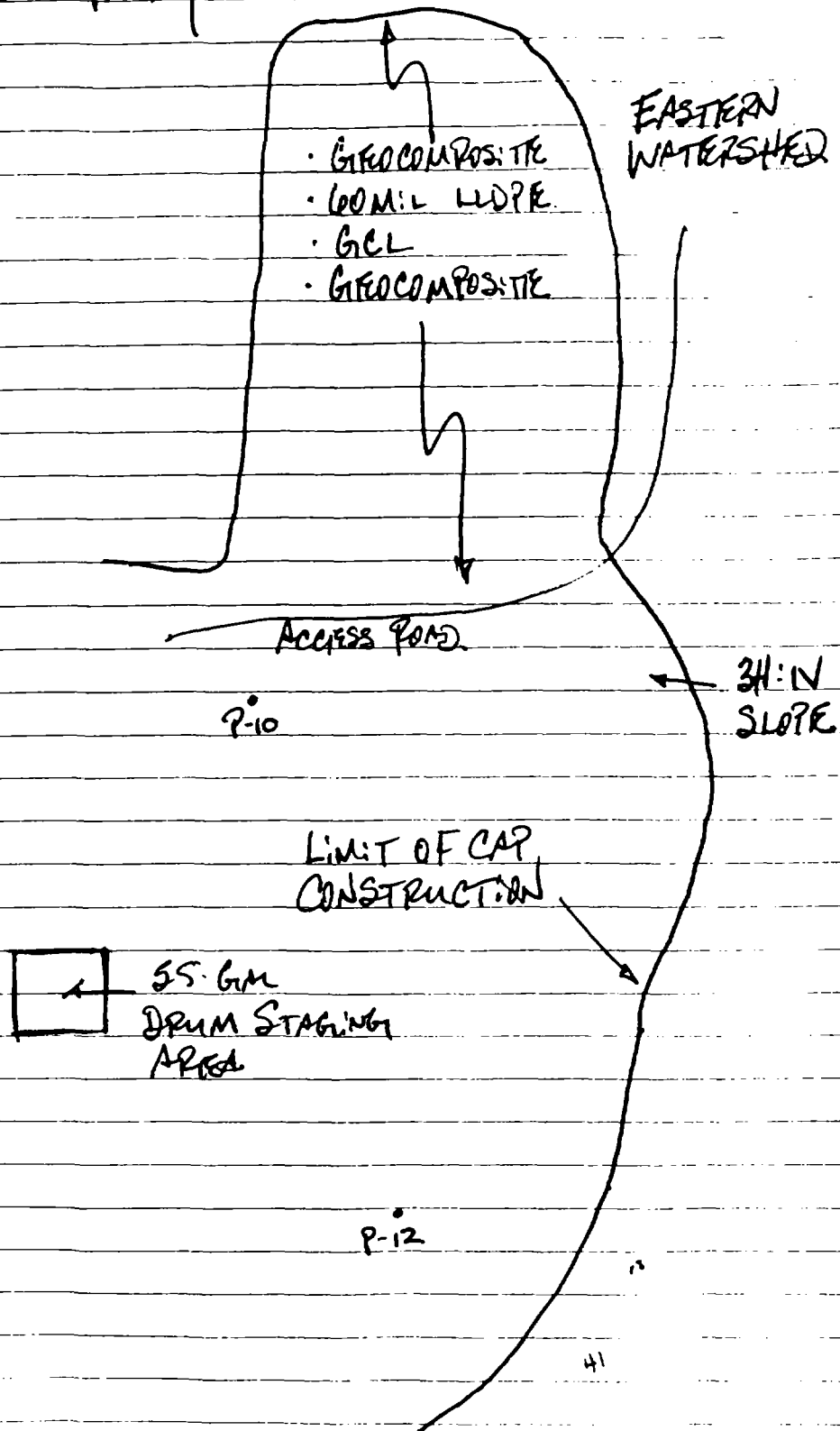
8/31/01, Friday  
 1145 LEFT OFFICE FOR SKINNER LF M. Brady  
 1210 Plu PHOTO DISK @ CLICK CAMERA  
 DISB. CAMERAS  
 1245 @ SKINNER LF OVERCAST. HOT & HUMID  
 90°F  
 1300 MIDAM. COVERING LDPE W/ FINAL GEOCOMP.  
 LAYER



1330 ALTERNATIVE FINAL COVER SYSTEM  
 PRO TERRA IS RE-CIRCULATING THE BIO-  
 POLYMER WITH IT #2. 3-8 INCH WELLS  
 INSTALLED FOR RE-CIRCULATION. POWDERED  
 BLEACH ADDED TO THE WELL & TRENCH  
 TO BREAK THE POLYMER. THE TRENCH @  
 7+00 IS ~ 10' WIDE B/C OF SATURATED  
 SAND & TRENCH SIDE-WALL INSTABILITY.  
 PRO TERRA & GEO SOLNS ARE NEAR COMPLETION.

8/31/01 FRIDAY

M. BRADY



- 8/3/01 FRIDAY M. BRADY  
 1345 BURGESS & NIPCE ON-SITE THIS WK THRU.  
 THE END OF THE PROJECT B/C DAVIDE  
 ESTES, FONG WAS FIRED. MEASUREMENTS  
 WERE OFF AS MUCH AS 7 TENTHS INCH.  
 1400 MIDAM CONDUCTING DETAIL WORK. 13  
 DESTRUCTS TAKEN THUS FAR. MIDAM IS  
 WRUING DESTRUCT. SAMPLE AREAS &  
 GAS VENT PIPE BOOTS. VAC BOX TESTING  
 DONE ON EVERY LINEAR FOOT OF EXTRUDED  
 WELD. DSH SOAP USED W/ VISIBLE FAILURE  
 TEST.  
 1500. MIDAM COMPLETED FINAL COVER DEPLOYMENT  
 NEAR N. BORROW AREA. EVERY SEAM OF  
 THE FINAL COVER GEOCOMPOSITE HAS BEEN  
 SEWN. PLASTIC WIRE TIES USED I.E. WIRE  
 TIES WERE USED IN THE GEONET.  
 1515 EARTH TECH & MIDAM DONE FOR THE DAY.  
 PRO TERRA STILL BE CIRCULATING THE  
 BIO-POLYMER & BREACH SOLIN IN IT#2.  
 1530 M. BRADY OFF SITE TO OFFICE.  
 1700 DONE

8/3/01

8/6/01 MONDAY

1030 LEFT OFFICE TO PLU PHOTO DISK + M. BRADY.  
DRIVE TO SKINNER LF1130 @ SKINNER LF V. HOT, V. HUMID 90-95 F  
BP01/BP02 STILL OPEN EXC. SEVERAL TON OFF  
BOXES IN THE WAY. TIM AUCHON SITE  
AS PRP CONSTRUCTION OVERSIGHT.  
TWO PROTERRA EMPLOYEES ON SITE  
PUMPING WATER FROM IT#3 INTO THE  
CREEK. NOTE PROTERRA WILL BEGIN  
CONSTRUCTION OF THE FORCE MAIN  
TOMORROW - THUS THEY DID NOT WORK  
SATURDAY.1145 E.T. CONTINUES TO REMOVE SOIL FOR  
THE S BORROW AREA FOR SURFACE  
PREP ON THE LF. NO WORK THIS PAST  
SATURDAY 4 AUG. 01. SOIL BERM HAS  
BEEN CONSTRUCTED @ DUCK POND.  
NO WORD YET ABOUT THE DISPOSITION OF  
THE SC. GAL DRUM STAGING AREA.1200 MIDAM CONTINUES TO INSTALL LINER  
ON S SLOPE OF LF. THIS IS A V. TIME  
CONSUMING PART OF THE LINER INST.  
IN THAT MIDAM MUST PIECE THE LINER  
TOGETHER ALONG THE STEEP GRADE  
WHILE TURNING A CORNER. MIDAM DID NOT  
WORK SAT. B/C THE AREA WAS NOT  
SURVEYED DURING THE WEEK.1315 LINER INSTALLATION SHOULD GO FASTER  
ONCE MIDAM IS BEYOND THE LONGER  
S SLOPE OF THE LF.  
SHORTER PANELS WILL BE NEEDED ON THE  
SLOPES FURTHER WEST.

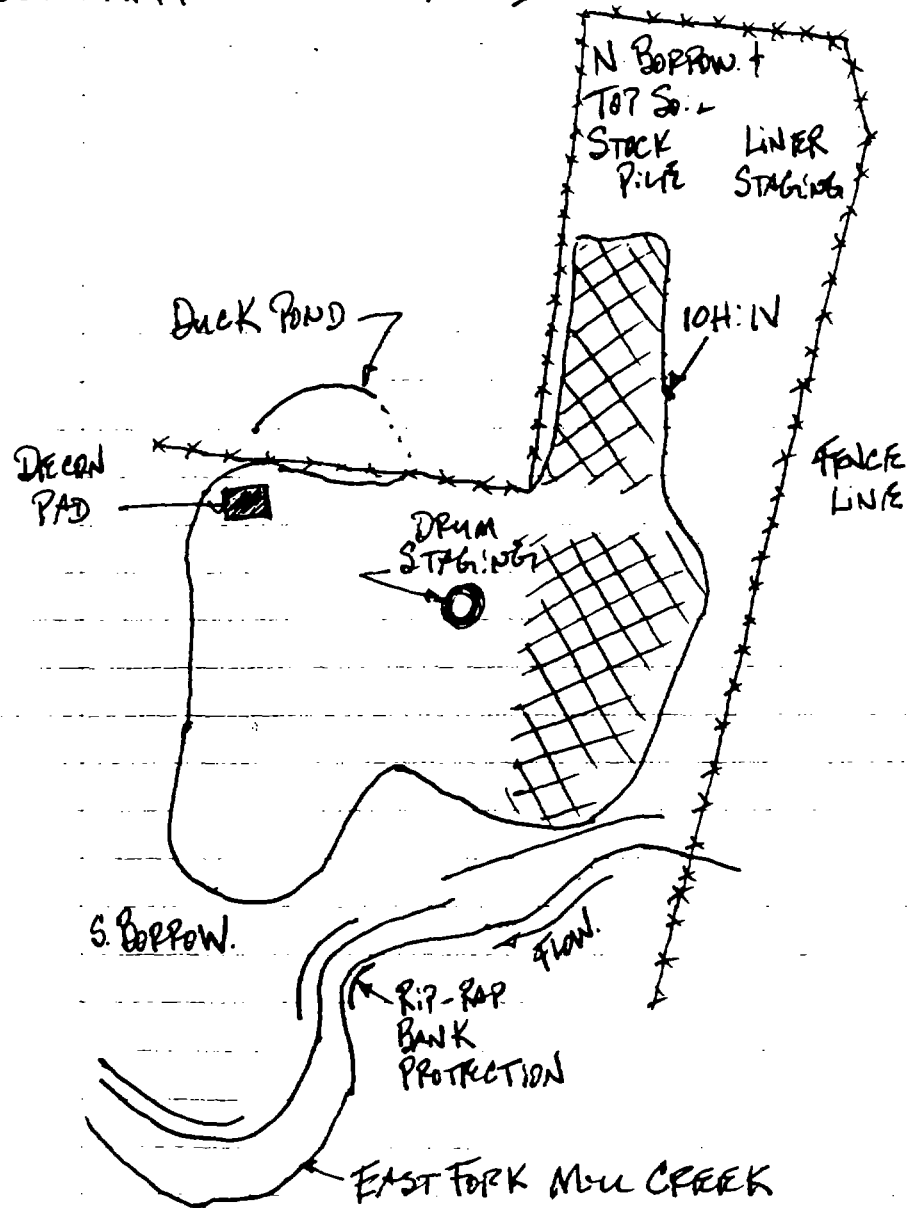
1415 PROTERRA CONTINUES TO PREP FOR THE

8/6/01 Monday.

### INSTALLATION OF THE FORCE MAIN.

500 LINKER INST. THUS FAR

M. Brady



IS THE TEMP. OF THE LF. IS V. HIGH. IT'S ESTIMATED THAT WORK ON THE LINER IS 10 TO 20°F HIGHER THAN OTHER AREAS OF THE SITE. TWO MIDAM. EMPLOYEES HAVE HAD HEAT RASH TWICE & SKINNEE-QC & MASTER TECH.

8/6/01 Monday.

M. BRADY

1530. BURGESS & NIPHE & DAVID E ESTES HAVE  
BEEN ON-SITE CONDUCTING SURVEYS1610. AARON BRADSON MENTIONED THAT FORCE MAIN  
INSTALLATION MAY NOT START UNTIL WED.  
OF THIS WEEK.

1640 M. BRADY OFF-SITE

8/6/01



17/01 TUESDAY.

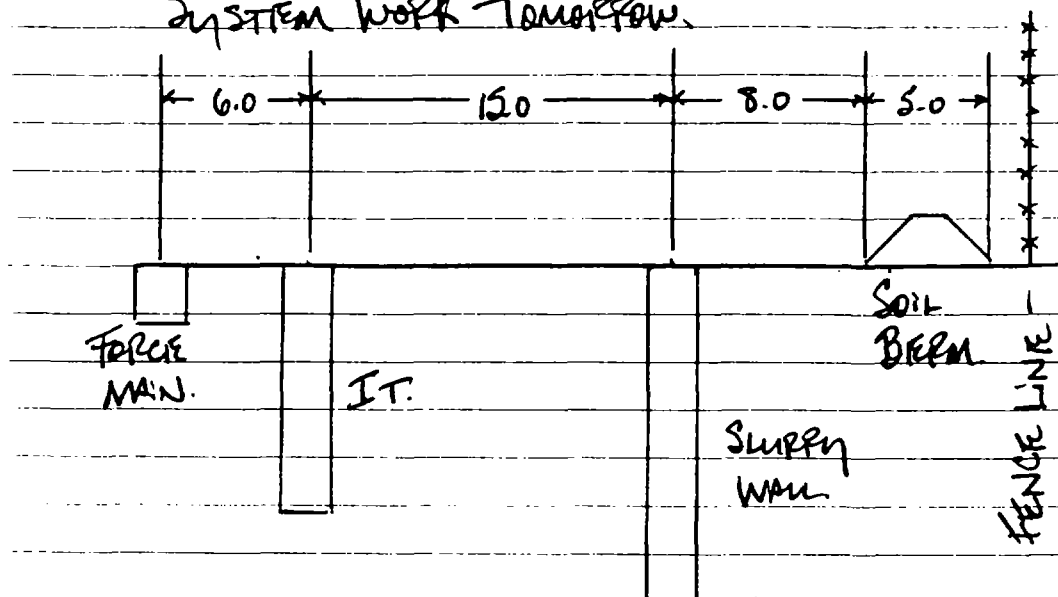
M BRADY

1100. LEFT OFFICE FOR SKINNER L.F.

1145 C SKINNER L.F. V. HOT, V. HUMID. 95°F.

MR. SKINNER HAS SEVERAL RUN-OFF BOXES  
AROUND AREA BPO1/BPO2. STILL AN OPEN FOCC.

1210. PROTERRA WORKING ON THE FORCE MAIN Syst.

1230. MIDAM CONTINUES TO DEPLOY LINER  
ON THE S SLOPE & AROUND THE CORNER  
UP SLOPE OF IT#1.1330. PROTERRA WILL START THE FORCE MAIN  
SYSTEM WORK TOMORROW.

X-SECTION: FORCE MAIN, IT. &amp; SHIPPY WALL

1415 M. SHERPAN WILL PUMP OUT THE L.O.  
FM DRUMS IN THE STAGING AREA  
TODAY. THE L.O. WILL BE DISPOSED  
OFF-SITE.1430 MIDAM DEPLOYING FML ALONG S. SIDE  
SLOPE OF L.F. DENTONITE POWDER USED  
ALONG SEAMS OF GCL. PLASTIC WIRE  
TIES USED EVERY 5' ON THE GREENLET,  
GEO TEXTILE SEAMS WERE STENED  
THE ENTIRE LENGTH, DUAL-SEAM

M. Brady

6/8/01 WEDNESDAY

1100 LEFT OFFICE FOR SKINNER LF.

1135 C SKINNER LF. V. HOT & HUMID ~95°F  
AREA BRO1/BRO2 STILL AN OPEN EXC. & ACCESS  
BLOCKED BY ROLL-OFF BOXES1210. PROTERRA IS INSTALLING THE FORCE  
MAIN TRENCH & MAN HOLES @ THE WEST  
END OF IT #21235 E.T. IS CRUSHING & COVERING THE 55-GAL  
DRUMS IN THE STAGING AREA NEAR THE  
CENTER OF THE LF.

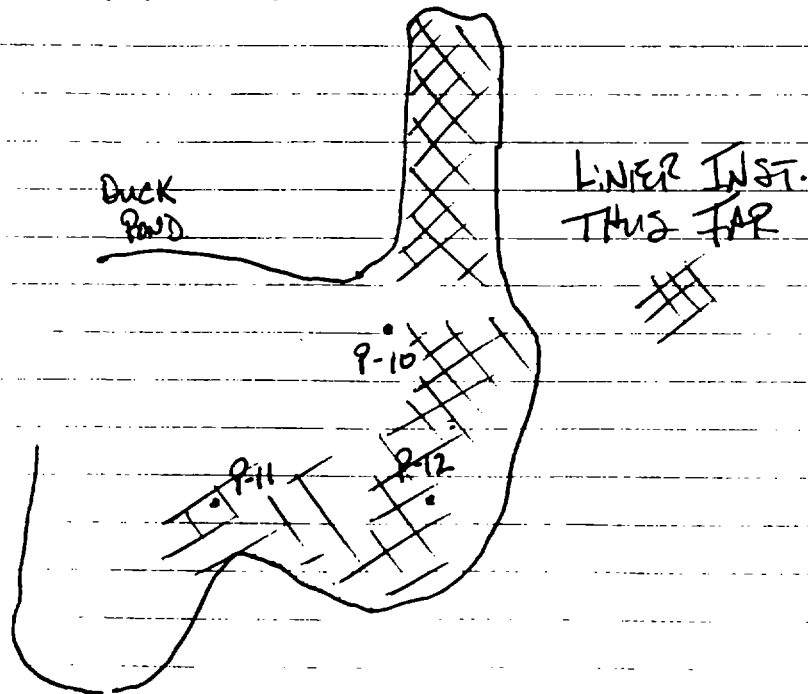
1245 MEASURED HDPE SURFACE TEMP. IS 128°F.

1300 SHEEPS-FOOT POWER USED TO COMPACT  
SOIL @ DRUM STAGING AREA.1315 E.T. IS REINFORCING THE SOIL BERM JUST  
SOUTH OF THE DUCK POND.

1320 E.T. IS UP TO PANEL WD C. P. ECOMETER P-11.

1330. AMBIENT TEMP. 102°F.

1400 HILVERT &amp; POPP ELECT. CONT. ON-SITE



8/7/01 TUESDAY.

M. BRADY

WELDER USED ON LDPE.

1500 E-T PUMPING OUT 40 FM 55 GAL  
DRUMS.1545 E-T EQUIP. BROKEN DOWN. C DRUM  
STAGING AREA E-T WILL FINISH  
TOMORROW.

1645 M. BRADY OFF SITE

M  
8/7/01

8/8/01 WEDNESDAY

1510

REPLACEMENT FOR MIDAM. QC ON SITE  
MIDAM HAS STOPPED DEPLOYING LINER  
UNTIL THE SUB-BASE HAS DRIED. IS  
COMPACTED THE SUB-BASE IS TOO SPONGY.  
E.T. IS NOW POWLING THIS AREA.  
MIDAM IS DETAILING THE LINER, GRINDING,  
WELDING, ETC.

1530

THE 55-GAL DRUM STAGING AREA IS NOW  
COVERED W/ SOIL. THE SOIL HAS BEEN  
COMPACTED W/ A SHEEPS-FOOT ROLLER

1615

E.T. CREW DONE FOR THE DAY. PROTERRA &  
MIDAM STILL ON-SITE

1635

M. BRADY OFF-SITE.

8/8/01

- 8/9/01 THURSDAY M. BRADY
- 1045 LEFT OFFICE FOR SKINNER LF.
1120. C SKINNER LF. SLIGHTLY OVERCAST, HOT & HUMID 50°F. AREA BPO1/BPO2 STILL AN OPEN EXC.
1140. PROTERRA ADVANCED THE FORCE MAIN TRENCH TO THE EAST END OF IT#2. THREE LINES HAVE BEEN INSTALLED WITHIN THE TRENCH, FORCE MAIN, ELECT. CONDUIT, & COMM. LINE. SAND BEDDING HAS BEEN USED IN THE TRENCH.
1210. MIDAM DEPLOYING LINER FURTHER WEST & AROUND THE CORNER UPGRAD. OF IT#2. SOME OF THE SUB-BASE FURTHER WEST IS STILL SPONGY. 15 DESTRUCT. SAMPLES HAVE BEEN MARKED & COLLECTED FOR SAMPLING.
1240. MORE CLOUDS NOW. MIDAM MAY HAVE TO DEPLOY THE GEOCOMPOSITE DRAIN. LAYER AFTER LUNCH.
1300. THE ELECTRICIAN FM HILWERT & POPE IS INSTALLING THE ELECT. LINE & COMM. LINE CONDUITS IN THE FORCE MAIN TRENCH.
1330. MIDAM IS DEPLOYING THE GEOCOMP. NOW. THE SKY IS OVERCAST NOW & IT'S MUCH WINDIER.
1345. E.T. IS CONTINUING WITH & COMPACTION WORK @ THE DRUM STAGING AREA.
1400. JASON MENTIONED THAT E.T. MAY BUILD GABION BASKETS TODAY FOR CREEK BANK REINFORCEMENT.
1500. MT'L ARRIVED FOR GABION BASKETS.
1515. MIDAM. DEPLOYING GEOCOMP. & DETAILING LINER.
1530. M. BRADY OFF SITE. TO THE OFFICE

8/9/01.

**PHOTO-DOCUMENTATION**



## **ATTACHMENT A SITE PHOTOGRAPHS**

### **Photograph List**

- Photograph 1: 25 June 2001 - Installing the fabric at interceptor trench # 1, Skinner Landfill
- Photograph 2: 26 June 2001 – Construction of interceptor trench # 1, Skinner Landfill
- Photograph 3: 27 June 2001 - Construction of the west access road, Skinner Landfill
- Photograph 4: 27 June 2001 – Backfilling interceptor trench # 1 with #4 (AASHTO) gravel, Skinner Landfill
- Photograph 5: 27 June 2001 – Excavation at contaminated soil area GW-38, Skinner Landfill
- Photograph 6: 27 June 2001 – Interceptor trench # 1, looking west, Skinner Landfill
- Photograph 7: 27 June 2001 - Piezometer P-10 installation, Skinner Landfill
- Photograph 8: 28 June 2001 - Skinner Duck Pond, Looking north, Skinner Landfill
- Photograph 9: 29 June 2001 - Pooled runoff and leachate near interceptor trench #2, looking southwest Skinner Landfill
- Photograph 10: 28 June 2001 – Collecting confirmation soil samples at contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 11: 28 June 2001 – Equipment decontamination, Skinner Landfill
- Photograph 12: 28 June 2001 – Measuring the depth of Interceptor Trench #2, Skinner Landfill
- Photograph 13: 29 June 2001 – Soil fractures along interceptor trench #2, looking west, Skinner Landfill
- Photograph 14: 2 July 2001 - Installing a fabric panel at interceptor trench # 3, Skinner Landfill
- Photograph 15: 2 July 2001 - Installing an 8-inch diameter well at interceptor trench # 3, looking west, Skinner Landfill
- Photograph 16: 2 July 2001 – Soil fractures along interceptor trench #2, Skinner Landfill



- Photograph 17: 3 July 2001 - One of 15 gas vents, Looking southwest, Skinner Landfill
- Photograph 18: 3 July 2001 - Linear Low Density Polyethylene (LLDPE), Skinner Landfill
- Photograph 19: 5 July 2001 - Collecting surface water run-off samples, Skinner Landfill
- Photograph 20: 5 July 2001 - Meeting between Engineer and Contractors at interceptor trench # 2, Skinner Landfill
- Photograph 21: 9 July 2001 - Construction of interceptor trench # 3, Skinner Landfill
- Photograph 22: 9 July 2001 – Interceptor trench # 1, looking west, Skinner Landfill
- Photograph 23: 9 July 2001 - Working through saturated sand lenses at interceptor trench # 3, Skinner Landfill
- Photograph 24: 10 July 2001 - Construction of interceptor trench # 3, Skinner Landfill,
- Photograph 25: 11 July 2001 - Cutting samples from the GCL for performance tests, Skinner Landfill
- Photograph 26: 11 July 2001 - Cutting samples from the LLDPE rolls for performance testing, Skinner Landfill
- Photograph 27: 13 July 2001 - Dust control, Skinner Landfill
- Photograph 28: 16 July 2001 - Drum staging area partially submerged from the Duck Pond dewatering, Skinner Landfill
- Photograph 29: 17 July 2001 – Over-excavation and soil sampling at contaminated soil area BP-01/BP-02, Skinner Landfill
- Photograph 30: 17 July 2001 – Over-excavation at contaminated soil area GW-38, Skinner Landfill
- Photograph 31: 18 July 2001 - Erosion damage to cut bank along the east fork of Mill Creek, Skinner Landfill
- Photograph 32: 18 July 2001 - Reinforcing the creek bank after thunderstorms and erosion damage, Skinner Landfill
- Photograph 33: 18 July 2001 - Silt fences partially buried from thunderstorm erosion, Skinner Landfill
- Photograph 34: 23 July 2001 - Anchor trench along the landfill side slope, Skinner Landfill

- Photograph 35: 24 July 2001 - Deploying a Geocomposite panel, Skinner Landfill
- Photograph 36: 24 July 2001 - Marker for destructive seam testing on double-fusion weld, Skinner Landfill
- Photograph 37: 24 July 2001 - Master Seamer sewing the Geocomposite layer on steep slopes, Skinner Landfill
- Photograph 38: 24 July 2001 - Preparing a trial seam on fragment LLDPE, Skinner Landfill
- Photograph 39: 25 July 2001 - Preparing Geosynthetic Clay Liner seams with Bentonite material, Skinner Landfill
- Photograph 40: 25 July 2001 - Securing Geotextile to Geonet using plastic wire ties and a Liester, Skinner Landfill
- Photograph 41: 25 July 2001 - Welding LLDPE liner with self-propelled, double-fusion welder, Skinner Landfill
- Photograph 42: 31 July 2001 - Securing Geocomposite end seams, Skinner Landfill
- Photograph 43: 1 August 2001 - Sewing Geotextile seams, Skinner Landfill
- Photograph 44: 2 August 2001 - Construction of modified Interceptor Trench #2, Skinner Landfill
- Photograph 45: 2 August 2001 - Deploying LLDPE panels, Skinner Landfill
- Photograph 46: 3 August 2001 - Conducting peel tests on LLDPE seams using the field tensiometer, Skinner Landfill
- Photograph 47: 3 August 2001 - Extrusion fillet welding on a gas vent boot, Skinner Landfill
- Photograph 48: 3 August 2001 - Punching 'bone' samples for destructive seam testing by peel and shear, Skinner Landfill
- Photograph 49: 6 August 2001 - Testing extrusion seams using dish soap and a 'V-box', Skinner Landfill
- Photograph 50: 7 August 2001 - Adding powdered bleach to the bio-polymer at Interceptor Trench #2, Skinner Landfill





25 June 2001 - Installing the fabric at Interceptor Trench # 1, Skinner Landfill



26 June 2001 - Construction of Interceptor Trench # 1, Skinner Landfill





27 June 2001 - Construction of the west access road, Skinner Landfill



27 June 2001 - Backfilling Interceptor Trench # 1 with #4 (AASHTO) gravel, Skinner Landfill





27 June 2001 – Excavation at contaminated soil area GW-38, Skinner Landfill



27 June 2001 – Interceptor Trench # 1, looking west, Skinner Landfill





27 June 2001 - Piezometer P-10 installation, Skinner Landfill



28 June 2001 - Skinner Duck Pond, looking north, Skinner Landfill





29 June 2001 - Pooled runoff and leachate near Interceptor Trench #2, looking southwest Skinner Landfill



28 June 2001 - Collecting confirmation soil samples at contaminated soil area BP-01/BP-02, Skinner Landfill





28 June 2001 – Equipment decontamination, Skinner Landfill



28 June 2001 – Measuring the depth of Interceptor Trench #2, Skinner Landfill





29 June 2001 – Soil fractures along Interceptor Trench #2, looking west, Skinner Landfill



2 July 2001 - Installing a fabric panel at Interceptor Trench # 3, Skinner Landfill





2 July 2001 - Installing an 8-inch diameter well at Interceptor Trench # 3, looking west, Skinner Landfill



2 July 2001 - Soil fractures along Interceptor Trench #2, looking east, Skinner Landfill





3 July 2001 - One of 15 gas vents, looking southwest, Skinner Landfill



3 July 2001 - Linear Low Density Polyethylene (LLDPE), Skinner Landfill





5 July 2001 - Collecting surface water run-off samples, Skinner Landfill



5 July 2001 - Meeting between Engineer and Contractors at Interceptor Trench # 2, Skinner Landfill





9 July 2001 - Construction of Interceptor Trench # 3, Skinner Landfill



9 July 2001 - Interceptor Trench # 1, looking west, Skinner Landfill





9 July 2001 - Working through saturated sand lenses at Interceptor Trench # 3, Skinner Landfill



10 July 2001 - Construction of Interceptor Trench # 3, Skinner Landfill,





11 July 2001 - Cutting samples from the GCL Rolls for performance testing, Skinner Landfill



11 July 2001 - Cutting samples from the LLDPE rolls for performance testing, Skinner Landfill





13 July 2001 - Dust control, Skinner Landfill



16 July 2001 - Drum staging area partially submerged from the Duck Pond dewatering, Skinner Landfill





17 July 2001 – Over-excavation and soil sampling at contaminated soil area BP-01/BP-02, Skinner Landfill



17 July 2001 – Over-excavation at contaminated soil area GW-38, Skinner Landfill



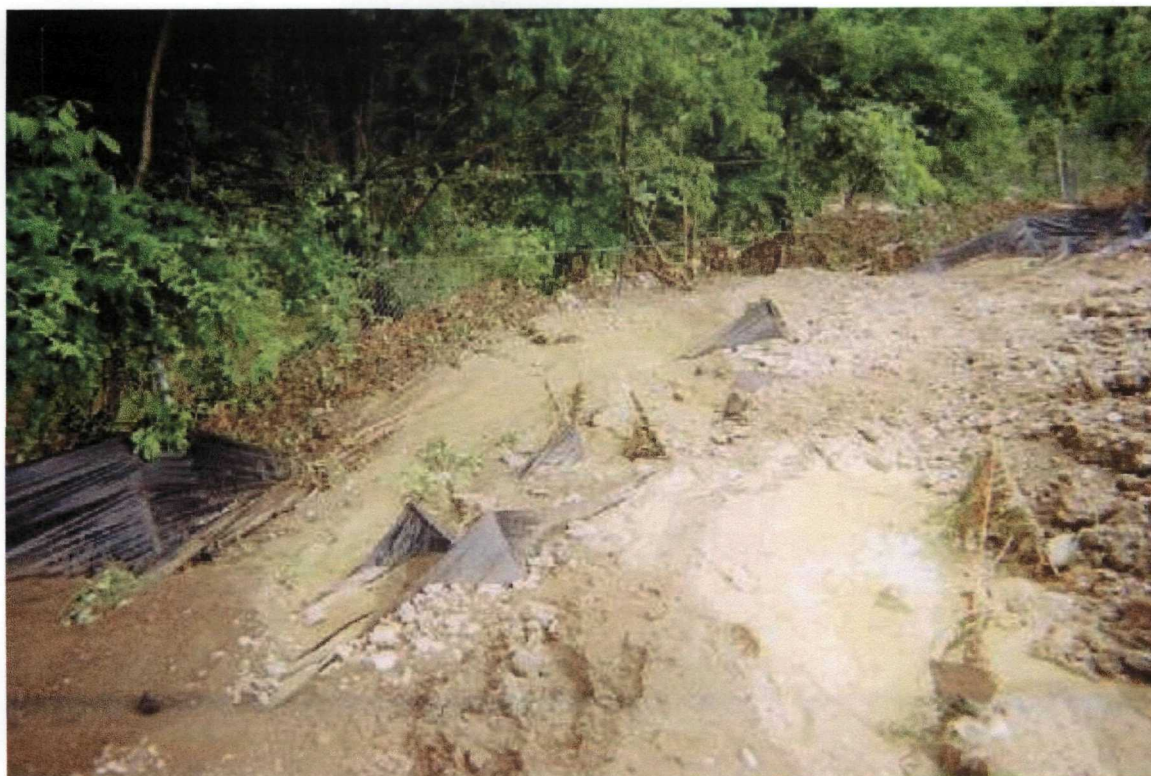


18 July 2001 - Erosion damage to cut bank along the East Fork of Mill Creek, Skinner Landfill



18 July 2001 - Reinforcing the creek bank after thunderstorms and erosion damage, Skinner Landfill





18 July 2001 - Silt fences partially buried from thunderstorm erosion, Skinner Landfill

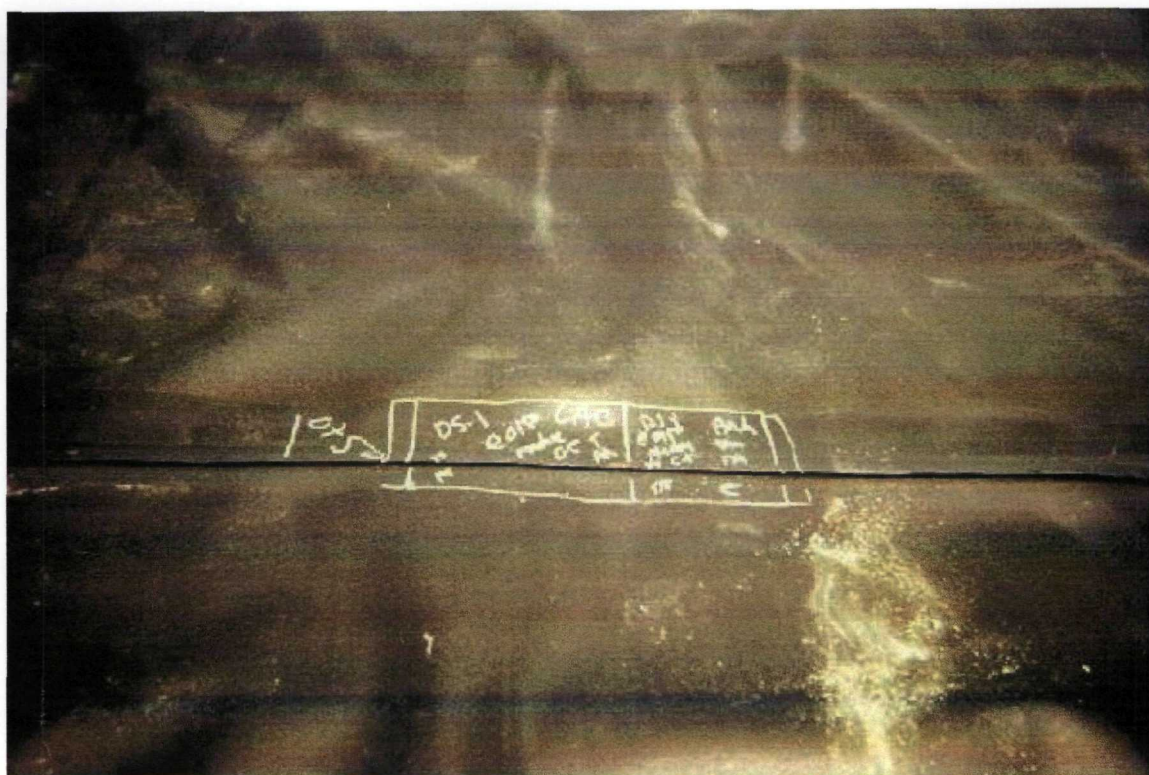


23 July 2001 - Anchor trench along the landfill side slope, Skinner Landfill





24 July 2001 - Deploying a Geocomposite panel, Skinner Landfill



24 July 2001 - Marker for destructive seam testing on double-fusion weld, Skinner Landfill





24 July 2001 - Master Seamer sewing the Geocomposite layer on steep slopes, Skinner Landfill



24 July 2001 - Preparing a trial seam on fragment LLDPE, Skinner Landfill





25 July 2001 - Preparing Geosynthetic Clay Liner seams with Bentonite material, Skinner Landfill



25 July 2001 - Securing Geotextile to Geonet using plastic wire ties and a Liester, Skinner Landfill





25 July 2001 - Welding LLDPE liner with self-propelled, double-fusion welder, Skinner Landfill



31 July 2001 - Securing Geocomposite end seams, Skinner Landfill





1 August 2001 - Sewing Geotextile seams, Skinner Landfill



2 August 2001 - Construction of modified Interceptor Trench #2, Skinner Landfill





2 August 2001 - Deploying LLDPE panels, Skinner Landfill



3 August 2001 - Conducting peel tests on LLDPE seams using the field tensiometer, Skinner Landfill





3 August 2001 - Extrusion fillet welding on a gas vent boot, Skinner Landfill



3 August 2001 - Punching 'bone' samples for destructive seam testing by peel and shear, Skinner Landfill





6 August 2001 - Testing extrusion seams using dish soap and a 'V-box', Skinner Landfill



7 August 2001 - Adding powdered bleach to the bio-polymer at Interceptor Trench #2, Skinner Landfill